



User Manual

Mio Map™ v3.2

Navigation software for Mio DigiWalker P350 and P550

UK English

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Thank you for choosing Mio DigiWalker P350/P550 as your door-to-door in-car navigator. Read the Quick Start Guide first and start using Mio Map right away. This document is the detailed description of the software. Although Mio Map can easily be discovered by experience, it is still recommended that you read through this manual to clearly understand the exact function of each button and icon.

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1 Warnings and safety information

Mio Map is a navigation system that helps you find your way to your selected destination. It will determine your exact location with the help of a built-in GPS device. The position information obtained from the GPS receiver will not be transmitted anywhere, so others will not be able to track you by the help of this program.

If you are the driver of the vehicle, we recommend that you operate Mio Map before beginning your journey. The driver's attention should be on the road. Plan your route before departure and pull over if you need to change route parameters. Mio Map has a built-in (optional) Safety Mode that will prevent you from using the screen functions if your car is in motion. Unless a passenger will be the only one to operate Mio Map, we strongly encourage you to turn on the Safety Mode.

It is also important that you look at the display only if it is absolutely safe to do so.

You should always observe traffic signs and road geometry before you obey any instruction from Mio Map. If you need to deviate from the recommended direction, Mio Map will suggest a modified route according to the new situation.

Never place your Mio DigiWalker where it can obstruct the view of the driver, is within the deployment zone of airbags, or where it can cause injuries in case of an accident.

2 General information


Mio Map is a navigation system optimised for in-car use. It provides door-to-door navigation for both single and multi-point routes using adaptable route parameters. Mio Map is capable of planning routes throughout the whole map region installed on the memory card. Unlike some other products, Mio Map does not require that you change maps or switch to a poorly detailed general map to navigate between map segments or countries. You always have complete freedom to go wherever you wish. Just select your destination and go.

You do not need a stylus to use Mio Map. All screen buttons and controls are designed so that you can operate them with your fingertips.

You can access all functions of the program by using hardware and screen buttons. With the help of these buttons you can travel through all the screens of the program. Most of the screens (especially menu functions and settings) can be accessed from several other screens, minimising the number of actions needed to reach the desired function.

When using Mio Map, you do not need to 'double tap' or 'tap & hold' the touch screen as these functions cannot be used reliably in a moving vehicle. A single tap triggers most of the screen controls. The only exceptions are 'drag & drop' for moving the map, or scaling it in Map mode (4.3.6).

Most of the screens have a Return () button in the top left corner. This arrow returns to the previous screen or directly to one of the map screens.

Settings screens also have a Help () button in the top right corner. This will show a detailed description of the current settings screen.

3 Operating Mio Map (Controls)

Mio Map is designed for easy operation. All controls are operable by fingertips. Wherever possible, pushbuttons and lists are provided to make accessing functions or changing settings as easy as possible.

3.1 Hardware buttons

There are only a few hardware buttons on your Mio DigiWalker P350/P550. The majority of the Mio Map functions can be accessed using the touch screen. The hardware buttons are the following:



3.1.1 Power on/off

Use this button to turn the power of the Mio DigiWalker P350/P550 on or off any time. If the device power is turned off while Mio Map is running, when you turn the device back on, Mio Map will continue the navigation as soon as the built-in GPS determines the location again.

While the device is switched off, the GPS will not work, no position will be calculated, track log will not be saved, and navigation will stop.

3.1.2 Tilt up and down

This function modifies the vertical view angle of the map in 3D mode. Mio Map offers a wide range of view angles starting from a top down view (a seamlessly integrated 2D view) down to a flat view that lets you see far ahead.

The automatic Smart Zoom function will do the necessary tilting for you when navigating (gives a flat view if the next turn is at a distance to let you see far ahead and raises the angle when approaching a turn to give you a better view of the upcoming manoeuvre). If you manually change the view angle, Smart Zoom will no longer tilt the map by itself (automatic zooming and rotating remains active). You need to press the joystick, or tap the Lock button (4.3.4) to return the tilt control to Smart Zoom.

These hardware buttons have screen button equivalents described in 4.3.3.

Note: The Tilt down button has a special function when starting Fly Over (4.6.3.4), the route simulation. If started while keeping this button depressed, the simulation will be fast to give you a rough overview of the route events.

3.1.3 Zoom in and out

Zoom will change the scale of the map. If you zoom out, you will see a larger part of the map, while zooming in shows a smaller part of the map in more detail.

The automatic Smart Zoom function will do the necessary zooming for you when navigating (zooms out if the next turn is at a distance to let you see far ahead and zooms in when approaching a turn to give you a better view of the upcoming manoeuvre). If you manually change the zoom level, Smart Zoom will no longer scale the map by itself (automatic tilting and rotating remains active). You need to press the joystick, or tap the Lock button (4.3.4) to return the zoom control to Smart Zoom.

These hardware buttons have screen button equivalents described in 4.3.2.

3.1.4 Rotate left and right

Track-up map orientation (4.3.8) will always rotate the map so its top faces your direction of travel when your GPS position is available. Push the joystick left or right if you need to check something on your left or right.

If you rotate the map during navigation, Smart Zoom will still zoom and tilt the map but the automatic rotation (Track-up) will be deactivated, so the map orientation will remain as you set it. You need to press the joystick, or tap the Lock button (4.3.4) to reactivate the automatic map rotation.

3.1.5 Voice instruction announcement

When using either the Map or the Cockpit screen, you can repeat the latest voice instruction by pressing the joystick.

Tip: Use this button any time during your journey if you need the distance and type of the next route event.

Note: In order to receive voice instructions, sound should not be muted (4.3.11), voice guidance must be enabled (6.2.2), and a route must be active.

Note: If you have disabled Smart Zoom by using the functions above or moved the map during navigation (i.e. the Lock button appears on the screen), Enter will first re-enable normal navigation (Lock-to-Position and Smart Zoom), and will say the instruction only after being pushed again.

3.1.6 The Route Information screen

To give easy access to the most important data screen during navigation, a hardware button is reserved for opening the Route Information screen. Alternatively, tap the travel data section of the Cockpit screen (4.3.15) or the Info button (4.6.3.6) in the Route menu) to display this screen.

3.2 Screen buttons and controls

The primary input channel of Mio Map is the touch screen. If you read on, you will realise that most parts of the screen are not only used to display information but also to initiate functions by tapping. Below you will find a list of the most frequently used controls in the program.

3.2.1 Direct selectors

Some of the settings can be chosen from a short list of possible values. If the values can be described graphically, all values are available on the screen.





Tap one of the icons to set/change the value.

3.2.2 List selectors

When the values in the list need to be named, only the current value is shown (sometimes together with a short description) in a horizontal stripe with arrows at both ends.



The arrows are buttons. Tap  to move left in the list or tap  to move right. You need not confirm your selection. As soon as you leave the screen, the selected value becomes effective.

3.2.3 Sliders

When a feature has several different unnamed (numeric) values, Mio Map will show sliders that look like analogue potentiometers to set the desired value.

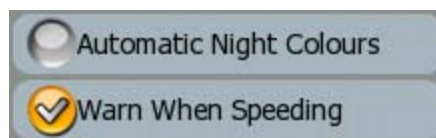




If the value limits are not displayed at the ends of the slider, the leftmost position means the minimum value, while the rightmost position represents the maximum value. With most sliders you can check the current value on the left.

This control can be operated in two ways. Either drag the handle to move the slider to its new position, or tap the slider where you want the handle to appear (the thumb jumps there immediately). As with the list selectors, there is no need to confirm your selection. As soon as you leave the screen, the selected value becomes effective.

3.2.4 Switches

When a function can only have two values (mainly Enabled and Disabled), a switch is used. Unlike with list selectors, the horizontal line contains the name of the function and not the actual status. There is a tick mark on the left to show whether the function is active or not.



When the tick mark is missing () , the function is not selected. When it is displayed () , the function is enabled. The whole strip works as a button. Tap anywhere to toggle between the enabled and disabled status.

3.2.5 Switches in the Quick menu

The switches of the Quick menu (4.6.2) behave as normal switches but they look different in order to fit in with the other menu buttons.



Tap the button to toggle between the two states. Remember that the sign on the button will not indicate the current state but the state you can switch it to.

3.2.6 Virtual keyboards

Mio Map is designed in a way that you only need to enter letters or numbers when it is inevitable. In these cases a full screen keyboard pops up that can easily be operated with your fingertips. You can choose between a separate ABC and numeric keypad, or a set of QWERTY-type keyboards that contain both letters and numbers. Mio Map will remember your last choice and offer it the next time you need to enter data.

The alphabetic keyboards in Mio Map do not contain special characters, because you do not need to enter accents when searching for a destination. Type only the base letters (the letter most similar to the accented one) and Mio Map will search for all their combinations in the database (e.g. for the French street 'Cité Bergère' you only need to type 'Cite Bergere', and the rest is done by the program).

When you type in POI or track log names, Mio Map will automatically turn all initials into capitals to create names that look pleasant.

3.2.6.1 **ABC-type keyboards**

These keyboards contain only letters. If you wish to enter numbers, you need to tap the Keys button to switch to the numeric keyboard.

Use Backspace (arrow pointing left between Space and Keys) to delete the last letter you have entered if you have made a mistake, tap Space to enter more words, and hit Done to finish entering the text.



This type of keyboard has large, finger-friendly buttons.

Note: If you have chosen a program language that uses Latin letters, only the ABC keyboard appears. If you choose the Greek language, an additional keyboard appears with Greek letters. Similarly Hebraic and Cyrillic letters are available when Hebrew or Russian is chosen in Setup / Languages (6.4.1).



If you are used to computer keyboards, you may consider trying one of the QWERTY-type keypads.

3.2.6.2 QWERTY-type keyboards

QWERTY-type keyboards have both letters and numbers on them. Their layout is the same as of the standard QWERTY and AZERTY (French) keyboards. To switch to your desired QWERTY-type keyboard, press the Keys button.



The special keys described in the previous section are also available here.

3.2.6.3 The numeric keyboard

The numeric keyboard only contains numbers, on huge buttons. The special keys you find on the other keyboards (except Space) are available here as well.



Although QWERTY-type keyboards also contain number keys, when entering a house number, the program offers the more convenient numeric keypad.

4 Discovering the program through the screens






The best way to discover Mio Map is to explore each screen in detail, and to find out how to move from one to another. Read this chapter for a guided tour.

4.1 Main menu

Mio Map starts by displaying the Main menu. This is the root of the screen hierarchy, but you need to return here very rarely while using the program. Screens are also accessible from each other to reduce the number of actions needed to initiate a function or change a setting.

Most parts of the program are directly accessible from the Main menu by using the buttons described below.



No.	Content	Explanation
	Button to open Settings	Chapter 6
	Button to open Address search	Section 5.3.1
	Button to open Favourites	Section 5.3.5
	Button to open Map screen	Section 4.3
	Button to open POI search	Section 5.3.4



Button to open History

Section 5.3.2



Button to open Cockpit screen

Section 4.3



Button to exit Mio Map

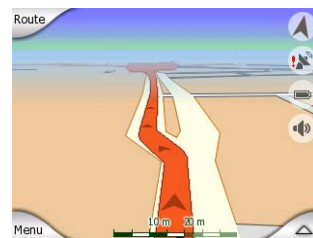
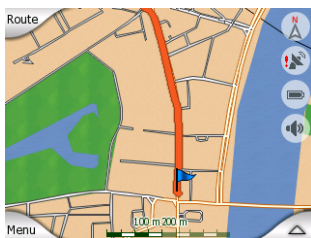
4.2 The map

The most important and most frequently used screens of Mio Map are the two screens with the map (Map screen and Cockpit screen). They are similar in look and in possible controls but are optimised for different uses. The map they display is common. The elements of the map are described here. For the controls and special functions of the two map screens see 4.3.

The current version of Mio Map is primarily intended for land navigation. That is why maps in Mio Map look similar to paper roadmaps (when using daytime colours and 2D map mode). However, Mio Map provides much more than regular paper maps can. The look and the contents can be changed.

4.2.1 2D and 3D map views

Besides the classical top down view of the map (called 2D mode), you have the possibility to tilt the map to have a perspective view (3D mode) that gives a view similar to that seen through the windscreen with the possibility to see far ahead.



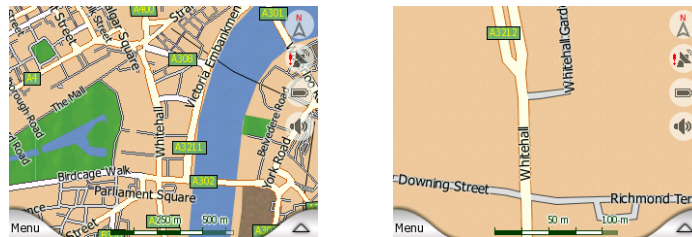
It is easy to change between 2D and 3D modes. You have two options. You can use the semi-transparent screen icons (4.3.3) to tilt the map seamlessly between 2D and all 3D angles, or you can use the switch in the Quick menu (4.6.2.1) to quickly switch between the two modes.

Note: You may find that 2D mode is more useful in North-up Map mode when looking for a certain part of the map or an object to select as destination. On the other hand, 3D mode in Track-up Cockpit mode with Smart Zoom makes navigation very comfortable. The description of these modes will come later in this manual.

Note: Using the Advanced settings, you can force Cockpit mode to always start in 3D Track-up view (6.5.1). You can still rotate and tilt the maps in either mode, but the next time you enter this screen, the preset look will reappear.

4.2.2 Zoom levels

Mio Map uses high quality vector maps that let you see the map at various zoom levels, always with optimised content. Street names and other text objects are always displayed with the same font size, never upside down, and you only see as many streets and objects as needed to find your way around the map. Zoom in and out to see how the map changes in either the 2D or 3D view.



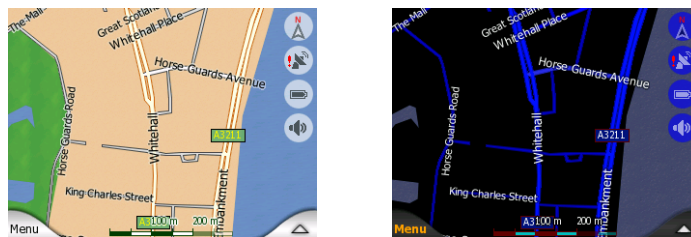
Changing the scale of the map is very easy. You can drag and stretch the scale (4.3.6) at the bottom of the Map screen, or use semi-transparent screen icons (4.3.2) on both Map and Cockpit screens.

Note: If you need to zoom out briefly to locate your position on the map, use the Overview mode instead of zooming out and back in. The Overview mode is a 2D North-up view that can be started by tapping the compass button on the right (see 4.3.8).

Note: Mio Map has a special Smart Zoom function for navigation that automatically rotates, scales and tilts the map in 3D map mode to always give you the optimal view in your current situation. When approaching a turn, it will zoom in and raise the view angle to let you easily recognise your manoeuvre at the next junction. If the next turn is at a distance, it will zoom out and lower the view angle to flat in order to let you see the road in front of you.

4.2.3 Daylight and night colour schemes

The different colour schemes let you adjust Mio Map to the brightness of the environment. Use the daylight and night colour schemes accordingly. Daylight colours are similar to paper roadmaps, while the night colour schemes use dark tints for large objects to keep the average brightness of the screen low, with carefully selected colours to still keep you informed about all the necessary information on the screen.



You can change between day and night views manually in the Quick Menu (4.6.2.3) or let Mio Map do it automatically (6.1.2) for you.

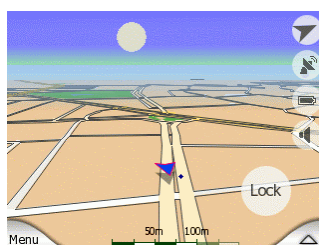
Note: The automatic day/night mode is based upon the current date and GPS position by which Mio Map calculates the exact sunrise and sunset times on the particular day at the particular location. Using that information Mio Map can automatically switch between the colour schemes a few minutes before sunrise, when the sky has already turned bright, and a few minutes after sunset before it gets dark.

Tip: There are several daytime and night colour schemes included with Mio Map. To select the one that suits your needs the best, make your selection in Advanced settings / Map options (6.5.4.1).

Tip: To further enhance the effect of the night colour scheme, you can instruct Mio Map to decrease the display backlight when the night colours are used. Set the desired backlight levels for both daylight and night modes in Advanced settings / Backlight (6.5.2.2).

Note: The colours mentioned and screenshots included in this manual refer to the default daytime and night colour schemes. They may not look the same in the schemes you have chosen.

Tip: If you use Mio Map after sunrise or before sunset, look for the sun in the sky in the map background using a flat 3D view. It is displayed at its actual position to give you another way to orientate, and also to provide some eye candy.



4.2.4 **Streets and roads**

The similarity of Mio Map to paper roadmaps is also convenient when it comes to streets, the most important elements of the map concerning navigation. Mio Map uses similar colour codes to those you are accustomed to, and the width of the

streets also refers to their importance, so it will not be difficult to tell a highway from a small street.

Streets and roads have names or numbers for identification. Of course, this information can be displayed on the map. Mio Map uses two different ways to show street labels. The conventional way is the same as a roadmap – it displays the name of the street aligned with the street. The alternative is a kind of virtual signpost stuck into the street itself.



You need not choose between the two modes. Mio Map will use the one best for the current tilt and zoom level. Zoom in to have only a few streets on the map, and start tilting up and down to see how Mio Map switches between the two modes in an instant.

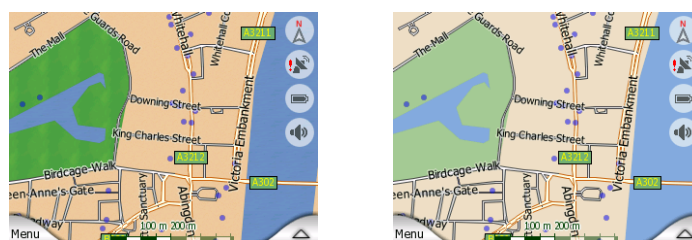
Note: The automatic switching is on even when using Smart Zoom. At first you may find it odd, but later you will discover how it adjusts the displayed information to the current view of the map. It is important, as the driver must be able to read the map at a glance.

Tip: If you do not want to be bothered by street names during navigation, turn them off on the Map Options screen (6.5.4.2).

4.2.5 Other objects

To help orientate you, the map also contains objects that have no other navigating function than to help you recognise your location on the map. These are surface-waters, large buildings, forests, etc.

Tip: These objects are normally displayed using textured polygons that look natural to the eye. You may wish to switch the textured display off (6.5.4.3) to free some of the resources of your Mio DigiWalker by replacing textures with plain coloured surfaces.



4.2.6 Current position and Lock-on-Road

When your GPS position is available, a green arrow shows your location on the map. The direction of the arrow represents your heading. The arrow is sized and vertically rotated with the zoom and tilt levels to always look realistic.



Mio Map has a built-in Lock-on-Road feature that always puts the position arrow on the road, on the axis of the street in case of one-way streets, or on the side of the road where you drive (e.g. on the right in Germany and on the left in the U.K.) on two-way roads.

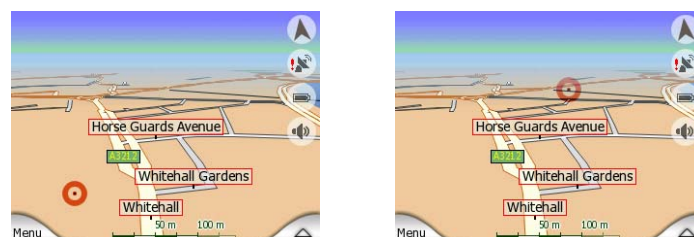
You always see this corrected position on the map. The position given by the GPS is not displayed, but this is the information recorded in the track log. When recorded track logs are shown on the map, the line is not corrected. You see the positions reported by the GPS.

Note: the Lock-on-Road feature can be turned off in Advanced settings (6.5.6) for pedestrian use. When switched off, the arrow is displayed where the blue dot would be with active Lock-on-Road.

When the GPS position is lost, the arrow turns grey and remains at the last known position.

4.2.7 Selected map point, also known as the Cursor

If you tap the map somewhere or select a specific item in Find, it will become the selected point on the map, marked with a small red dot and permanently radiating red circles to make it conspicuous at all zoom levels, even when it is in the background of a 3D map view. You can use this point as starting point, via point, or destination of your route, you can search for a POI near to it, mark it with a drawing-pin, or save it as a POI. The cursor, when visible, is also the reference point for map scaling.



Note: When your GPS position is available, and Lock-to-Position (4.3.4) is active, the cursor is the current GPS position, the green arrow. When you select another point by tapping the map, or using the Find menu (5.3), the new Cursor is shown on the display with the red dot and the radiating red circles.

4.2.8 Visible POIs (Points of Interest)

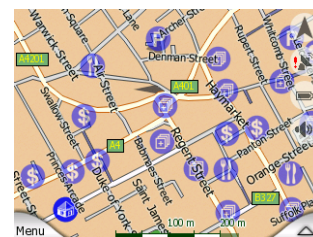
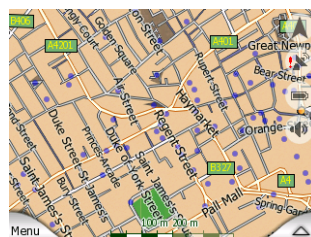
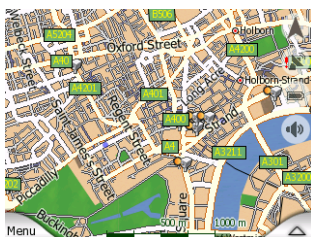
Mio Map comes with thousands of built-in POIs, and you can create your own POI database as well. Having all of them displayed on the map would make the map too crowded. To avoid this, Mio Map lets you select which POIs to show and which ones to hide (4.6.2.4) using their categories and subcategories.


POIs are represented by icons on the map. For a built-in POI it is the icon of the subcategory of the actual POI. For points you create, it is the icon you had chosen when you created the POI (it can be changed later).

These icons are large enough to recognise the symbol, and semi-transparent so as not to cover the streets and junctions behind them.



When the map is zoomed out, the icons are not shown. As you zoom in, small dots appear at the locations of visible POIs. Zooming in further makes the full icons appear.



If two points are too close to each other so that icons overlap, a multi-POI icon  is shown instead of individual ones. Zoom in more to see them separately. (Should the two overlapping POIs have the same icon, this icon will be displayed instead of the multi-POI icon.)

Note: When navigating, POI icons can be disabled together with street names (6.5.4.2). If you still need this information during your journey, just drag the map to disable Lock-to-Position (4.3.4). This will restore street names and POI icons immediately. Now tap Lock to reactivate Lock-to-Position.

Tip: Tap the map on or near a POI item to see the list of the names of the nearest POIs in a popup list, if it is enabled (4.6.2.5). To see the details of a particular POI in the list, tap the blue 'i' icon on the right. If you have too many POIs nearby, this list may not be complete. In the Cursor menu (4.3.13) there is a button called POI that leads you to the screen of all nearby POI items. There you can open them one by one to see their details, and select any of them as a route point.



4.2.9 Speed cameras

There are special POI types in Mio Map. There is a built-in database of thousands of fixed and mobile speed cameras in Europe. It is also possible to add new cameras to enhance this database. They are not shown in POI lists, but they are shown on the map with special icons. Speed cameras are described in detail in 4.7.

4.2.10 Contacts

A different type of special POIs is Contacts. When Mio Map is started, it will attempt to recognise the addresses in your DigiWalker's Contact database. All contacts with the address recognised will be shown as My POIs in a group named Contacts.

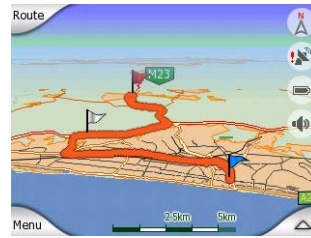
If they exist, both the home and work addresses of a contact will be imported. For example if you have the home and office addresses of John Smith, you will have two POIs, one called 'John Smith (Home)', and another one as 'John Smith (Work)'.

4.2.11 Elements of the Active Route

Mio Map uses a multi-destination routing system in which you have a start point (your current location if GPS position is available), a destination, the line of the active leg of the route, and optionally via points and inactive legs. They are all shown on the map.

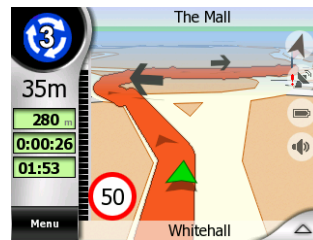
4.2.11.1 The start point, via points and the destination

These points are represented by flags.



4.2.11.2 Animated turn guidance

Animated arrows represent all route events other than the above-mentioned special points. These arrows show the direction in which you need to continue your journey.



4.2.11.3 The route line

The line representing the planned route is displayed in orange with both daylight and night colours. In both cases it is the most conspicuous part of the map even when in the background of a 3D map view.



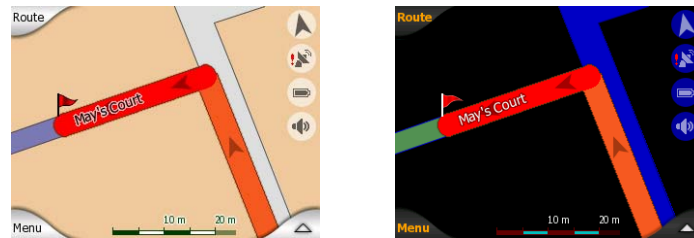
The line of the route is displayed on the driving side of the road for two-way and on the axis in case of one-way streets. When the map is zoomed in and the line is wide enough, small arrows show the direction of the route. This can be useful if you preview the route before starting the journey or when entering a complex junction.



4.2.11.4 Roads in the route excluded by your preferences

Although you can choose whether to include or avoid some road types in Route parameter settings (6.3.3), sometimes they are impossible to avoid near the starting

point, via points or the destination. If so, Mio Map will display those segments of the route in red.



4.3 Screens with map

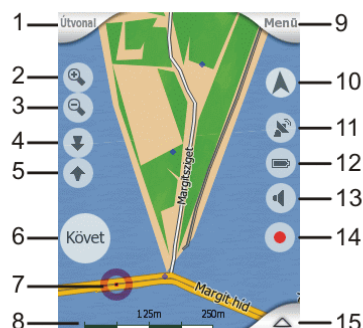
Having explained the contents of the map, the description of the other parts of the map screens follows. There are two map screens: the Map screen and the Cockpit screen. The way they show the map is the same but their look and controls are optimised for different purposes.

The Map screen is to be used mainly without a GPS, to browse the map, create user POI items, or to plan your route based on map points. The Map screen is designed to give you the maximum map area. This screen is usually used in 2D North-up mode.

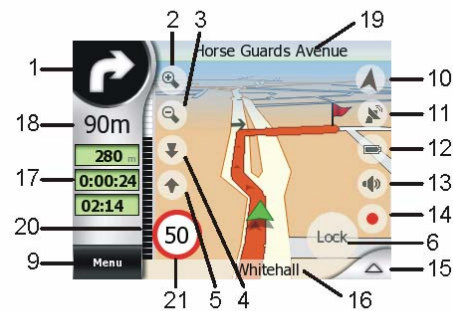
The Cockpit screen is for driving purposes. Besides showing the map, it contains some additional travel information if you are just cruising (speed, current street you are driving in, speed limit for the current street), and some more route data if you are navigating (e.g. next street in your route, distance to travel, type of the next route event). This screen is typically used in 3D Track-up mode (you can make Mio Map always open the Cockpit screen like that – see 6.5.1.1).

There are several controls that function in a similar fashion on the two screens. They are described on the following pages.

Map screen contents:



Cockpit screen contents:



No.	Display	Control
1	(Cockpit only) Turn preview*	Opens Route menu*
2	n/a	Zooms in (optional)
3	n/a	Zooms out (optional)
4	n/a	Tilts down (optional)
5	n/a	Tilts up (optional)
6	Indicates that Lock to GPS position and heading is inactive	Re-enables Lock-to-Position / Smart Zoom
7	Selected map point (Cursor)	Opens Popup Info and Cursor menu
8	(Map only) Map scale	Zooms in/out by dragging
9	n/a	Menu (Find, Quick, Route, Main)
10	Map orientation and Overview	Switches North-up, Track-up and Overview
11	GPS position quality	Opens GPS Data screen
12	Battery status	Opens settings
13	Sound on or muted	Enables/disables muting
14	Track Log recording or playback	Opens Track Log screen
15	n/a	Opens Cursor menu
16	(Cockpit only) Current street	Opens Route Information screen
17	(Cockpit only) Travel and Route data**	Opens Route Information screen
18	(Cockpit only) Distance to next turn***	n/a
19	(Cockpit only) Next street***	n/a
20	(Cockpit only) Approaching next turn****	n/a
21	Current speed limit*****	

* On Map screen only when a route is active
 ** Contents differ when a route is active
 *** Appears only when a route is active
 **** Appears only when a route is active and the next turn is near
 ***** Appears only if speed limit is known for the current road

4.3.1 Turn preview (No. 1)

On the Cockpit screen this field shows a graphic illustration of the next manoeuvre. For example when you approach a turn, an arrow will show whether it is a slight, normal or sharp turn. When showing a roundabout, the number of the exit is also given in the picture.





This field also serves as a button. Tap it to get to the Route menu (4.6.3). The Map screen will show a button called Route here if there is an active route. This also leads to the Route menu.

4.3.2 Zoom in and out (No. 2 & 3)

These semi-transparent buttons are only displayed if 'Zoom & Tilt' is enabled in the Quick menu (4.6.2.2).



Zoom will change the scale of the map. Zoom out shows a larger part of the map, while Zoom in shows a smaller part of the map in more detail.

The automatic Smart Zoom function will do the necessary zooming for you when navigating (zooms out if the next turn is at a distance to let you see far ahead and zooms in when approaching a turn to give you a better view of the upcoming manoeuvre). If you manually change the zoom level, Smart Zoom will no longer scale the map by itself (automatic tilting and rotating remains active). You need to tap the Lock button (4.3.4) to return the zoom control to Smart Zoom. If you are on the Cockpit screen, Mio Map will do this automatically if you leave the display untouched for 30 seconds.

4.3.3 Tilt up and down (No. 4 & 5)

These semi-transparent buttons are only displayed if 'Zoom & Tilt' is enabled in the Quick menu (4.6.2.2).



This function modifies the vertical viewing angle of the map in 3D mode. You can change the angle in a wide range starting from a top down view (2D view is seamlessly integrated) all the way to a flat view that lets you see far ahead.

The automatic Smart Zoom function will do the necessary tilting for you when navigating (gives a flat view if the next turn is at a distance to let you see far ahead and raises the angle when approaching a turn to give you a better view of the upcoming manoeuvre). If you manually change the view angle, Smart Zoom will no longer tilt the map by itself (automatic zooming and rotating remains active). You need to tap the Lock (4.3.4) to return the tilt control to Smart Zoom. If you are on the

Cockpit screen, Mio Map will do this automatically if you leave the display untouched for 30 seconds.

4.3.4 Lock to GPS position and heading (No. 6)

This semi-transparent icon is displayed if GPS position is available, and the map has been moved. It also appears when you scale or tilt the map while Smart Zoom is enabled.



Normally Mio Map positions the map to keep the GPS position visible somewhere on the map (when North-up orientation is selected), or always at the bottom centre of the map (when Track-up orientation is selected).

If you manually move the map, it will freeze the map in the new position. To return to the GPS position, use this Lock button.

When Smart Zoom is enabled, scaling or tilting the map also stops the automatic zooming or automatic tilting respectively. To reactivate Smart Zoom, tap this button.

Note: When the Cockpit screen is open, you do not need to tap the Lock button. Just wait for 30 seconds without tapping the screen, and Mio Map will automatically re-enable Lock-to-Position and/or Smart Zoom. If you tap the screen during this period, the 30 seconds countdown will restart.

4.3.5 Cursor (No. 7)

As described in 4.2.7, if you tap the map somewhere or select one specific item in Find, it will become the selected point on the map, marked with a small red dot and radiating red circles to make it conspicuous. You can use this point as starting point, via point or destination for your route, you can search for a POI near it, save it as a location of a speed camera, or save it as a POI.

Note: When GPS position is available, the Lock button will appear indicating that you have disabled Lock-to-Position. Tapping the Lock button will re-enable the position lock and move the cursor back to the current GPS position. The same happens when Mio Map restores Lock-to-Position automatically on the Cockpit screen after 30 seconds of inactivity.

4.3.6 Map scale (No. 8)

The scale indicator is only available on the Map screen. In 2D map view it represents the scale of the map. In 3D view it is the scale of the nearest part of the map only.



You can use it in both 2D and 3D modes to scale the map. Drag and pull it right to zoom in, or left to zoom out.

4.3.7 Menu (No. 9)

This button opens the Menu with the Find engine, the Quick menu, the Route menu and the exit button that takes you to the Main menu screen. The Menu will be described in detail later in 4.6.

4.3.8 Map orientation and Overview (No. 10)

You can view the map screens in three different presentation modes. This switch will cycle through them in the following order.

The usual map orientation for navigation is Track-up. It means Mio Map rotates the map during navigation to always face the direction of your travel. In this mode an arrow (compass) points towards North.



Tap this icon to switch to North-up mode. Now the map is fixed to keep facing North. The icon changes to show the new rotation mode.



Tap the icon again to enter Overview mode. This mode looks similar to the North-up mode with one difference: the zoom level in this mode has a fixed default to give you a better look of where you are on the map. You can change the zoom level at any time, this will not cause the Lock button to appear, but when entering Overview mode later, the default zoom level will be restored.

The arrow representing your position will be fixed in the middle of the screen. When you move the map in Overview mode, the Lock button will appear, and when pushed, it will move the map to have your current position in the middle of the map again.

You can set up Mio Map so that it will switch to Overview mode during navigation when the next turn is far away. You can specify this distance and the fixed zoom level of Overview in Advanced settings (6.5.5.2).





An aeroplane icon indicates the Overview mode.



Tap the icon again to return to Track-up (automatic rotation) mode.





4.3.9 GPS position quality (No. 11)

Similarly to the icon found on the GPS Data screen (4.4.3), the map screens also inform you about the GPS signal. They can show the same four values:

-  The black satellite dish with the red exclamation mark shows there is no connection with the GPS receiver. GPS navigation is not possible. Your Mio DigiWalker has a built-in GPS receiver that is permanently connected. This icon may not appear under normal circumstances.
-  Red shows there is a connection, but the signal is too weak to give a position. GPS navigation is not possible.
-  Black shows there is a GPS position, and navigation is possible. When only one arc is shown, the position is 2D (no altitude available), and position error may be significant, yet Mio Map is ready to navigate.
-  A black dish and two arcs represent a 3D GPS position. Mio Map is ready to navigate.

4.3.10 Battery status (No. 12)

The status of the battery is also shown by Mio Map. You can estimate the available power reserve from the length of the bar inside. Some examples:

-  The thunderbolt in the battery shows the battery is being charged.
-  Battery is not charging, but it is at full capacity.
-  Battery is not full, but there is sufficient reserve capacity.
-  When the inside of the battery turns red, the battery needs recharging.

4.3.11 Sound muting (No. 13)

By tapping this button you can quickly mute all sounds of the device. This will not modify the volume level and the enabled or disabled status of the voice guidance or the keypad tones (all to be set on the Sound Settings screen: 6.2), just mutes the sound output. When muting is enabled, the speaker icon is crossed out.



Tap again to re-enable sounds.



Note: Sound can be muted in Sound settings (6.2), too. There you have a Master switch that works together with the switch described above. There is also a Master slider on that screen. That you can use to fully turn down the volume of the device. Setting the volume low is different from muting, therefore it will not show up on the mute indicator.

4.3.12 Track Log recording/playback indicator (No. 14)

When a track log is being recorded, a red icon is displayed on the map screens. This icon also functions as a button leading to the Track Log screen (4.6.2.6) where you can stop the recording or make the track log visible on the map.



During track log playback a green icon will blink. Tapping this icon (in fact, tapping the screen anywhere) stops the simulation.



4.3.13 Cursor menu (No. 15)

The Cursor is the selected point on the map (marked by a red dot and radiating red circles around it), or the current GPS position when it is available and Lock-to-Position is enabled. When you tap the screen to place the Cursor, the Cursor menu pops up automatically to give you the list of possible functions you can use the Cursor for. At the same time Popup Info (street name, house number and the list of POIs nearby) appears near the selected map point if Popup Info is enabled in the Quick menu (4.6.2.4).

If you do not use the Cursor menu in a few seconds, it will automatically vanish back to the bottom of the screen, and Popup Info disappears, too. You can have them

reappear by reopening the Cursor menu using the arrow in the bottom right corner. When you open the menu manually, it will stay on until you close it or switch to another screen.

Tip: If you want to see the map around the Cursor, close the Cursor menu and reopen it. When this menu is opened manually, the map is always moved to have the cursor in the centre.



The content of the Cursor menu depends on the screen (Map or Cockpit) and it is slightly different if there is an active route already planned. You have the following options:

- **Start**: use the Cursor as the departure point for your route. This menu point is available only in Map mode and when there is no active route. In Cockpit mode the departure point of the route is always the GPS position or if it is not available, the last known GPS position.
- **Route To**: use the Cursor as the destination of your route. This button is to start a new route. The previous route (if it exists) will be deleted and replaced. If a multi-point route is active, Mio Map will ask you whether you really want to delete it together with all its via points.
- **Add Via**: by inserting the selected map point as a via, you instruct Mio Map to cross this location before the destination of the route. This is the way to build a multi-point route in reverse order (when you wish to insert a stopover 'go to A but first get some fuel at B' or want to influence the direction of the route). This menu point works only if a route is already active.
- **Remove Via**: removes the 'via point' near or at the Cursor. The route will be recalculated immediately excluding the deleted point. This menu point replaces Add Via and is available only if the Cursor is near or at a via point.
- **Continue**: add a new destination to be reached after the previous destination. The new destination replaces the old one, which is now demoted to a via point. This is the way to build your multi-point route in straight order (when you wish to visit several destinations 'go to A then to B'). This menu point is available only if a route is already active.
- **Add Cam**: this button will place a speed camera at the position of the Cursor. A new window opens where you can set the type of the camera (fixed, mobile, built-in, or section control camera), the direction of the monitored traffic (your direction, the opposite direction, both directions or all directions), and the speed limit.



If the map contains speed limit information, this will be the default value for Camera Speed.

- **Edit Cam:** you can edit the parameters of the camera near or at the Cursor, or delete it. This menu point replaces Add Cam and is available only if the selected point is near or at a speed camera. A window will open up that contains the same settings as in Add Cam. In addition, it will have a Delete button that removes the camera from the map.



- **Add POI:** opens the new POI capture window to let you add the selected map point to the list of your user points. This menu point is only available on the Map screen and if there are no POIs near the cursor (i.e. only the address is shown in the Popup Info window).
- **POI:** opens the list of POIs near the selected point. These are the POIs shown in the Popup Info window. If you want to add a new POI at the cursor, you can do so by tapping New in the bottom left corner. This menu point replaces Add POI and it is only available in the Map screen and if there is at least one POI item near the Cursor.



4.3.14 Current street (No. 16)

This field of the Cockpit screen shows the name or number (as available) of the current street or road you are driving on.

4.3.15 Travel and Route data (No. 17)

The contents of these three fields are different when cruising (without an active route) or navigating (following an active route).

While cruising, the fields show the present speed, and the time of day.

While navigating a route, these fields show the estimated time needed to reach the destination (ETE), the distance to destination, and the estimated arrival time at the destination (ETA) by default.

You can choose what to display in these three fields during navigation, by going to Advanced settings / Cockpit settings (6.5.1.2). See the following list for your options. The only restriction is that you cannot select a value that already appears in another field. The possible field contents are:

- Distance to destination (default value for the middle field)
- Time to destination (estimated time en route, default value for the bottom field)
- Distance to next via point
- Time to next via point
- Time to next manoeuvre (next route event)
- Speed
- Arrival at next via point
- Arrival at destination (default value for the top field)

4.3.16 Distance to next turn (No. 18)

This field shows the distance to go before reaching the next route event (turn, roundabout, exit, etc.)

This field is only displayed when navigating a route.

4.3.17 Next street / Next settlement (No. 19)

This field shows the road or street that comes next in the route itinerary.

If you are not yet in the settlement where this next street is, Mio Map will display the name of the settlement instead of the name of the road or street. A bullet symbol will appear next to the name of settlements to help you tell them apart from street names.



This field is only displayed when navigating a route.

4.3.18 Approaching next turn (No. 20)

This bar is only visible when approaching the next route event. It appears on the screen to visualise the distance when you get closer than 300 meters (1000 feet) to the next turn, and it remains visible till you reach the turn.

This field is displayed only when navigating a route.

4.3.19 Current speed limit (No. 21)

To help you drive safely, Mio Map shows the speed limit of the current road while you are cruising or navigating a route. This information is displayed only if it is available for the given road.

4.4 *GPS Data screen*

Tap the small satellite dish icon in the Main menu to open this screen. The GPS Data screen is a collection of information received from the GPS device and it also serves as the entry point to the Time Sync, GPS Setup and TMC screens. TMC is explained in detail in 4.8.



4.4.1 GPS data displayed

The virtual sky on the left represents the currently visible part of the sky above you, with your position as the centre. The satellites are shown at their current positions.

The GPS receives data from both the green and grey satellites. Signals from the grey satellites are only received, while green ones are used by the GPS to calculate your current location. On the right you can see the satellite signal strength bars. Dark bars are for the grey and orange bars are for the green satellites. To identify satellites use their numbers also shown in the virtual sky. The more satellites your GPS tracks (the green ones), the better your calculated position will be.



Additional pieces of information on this screen are: current position in latitude/longitude format, elevation, speed, date, time and calculated accuracy.

Note: Accuracy can be affected by several factors the GPS cannot take into account. Use this accuracy information only as estimation.

There are two icons on the left to show the status of the GPS connection and the quality of reception.




4.4.2 GPS connection indicator


In the middle to the left there is a lamp similar to the ones used for switches. This one has more colours and represents more values:

-  - a fast blinking green lamp means that there is communication with the GPS and data is being received,
-  - other colours may not appear with a built-in GPS. Should any of these appear, this means a faulty operation of your device.

4.4.3 GPS data quality indicator

In the top left corner there is a satellite dish to show the quality of the GPS position. Different colours represent different signal quality:

-  - black with a red cross means there is no connection with the GPS device, which should never be the case with a built-in GPS your device has.
-  - red means the GPS is connected but no GPS position is available,
-  - yellow means 2D reception. A GPS position has been acquired, Mio Map is ready for navigation, but the GPS is using enough satellites for calculating the horizontal position only. Elevation data is not provided, and the position error may be significant.


-  - green means 3D reception. The GPS receiver has enough satellites to calculate altitude. Position is generally correct (yet it can still be inaccurate due to different environmental factors). Mio Map is ready for navigation.

4.4.4 Time synchronization

In the top right corner of the screen you have another button that leads to a new screen where you can synchronize the clock of your PDA to the very accurate time provided by the GPS.



Turn on the Auto Correction switch to let Mio Map frequently check and correct the PDA time with the GPS time.

Below that button you will see the current values of the GPS and the PDA clocks. You can check here whether any correction is needed. Tap the  button to manually synchronize the time.

Below the PDA time you have hour and minute controls to manually correct the time with or without a valid GPS time. It also gives you the chance to correct the time after synchronization if your PDA does not support time zones or daylight saving time.

4.4.5 GPS configuration (Detect and Config.)

You have two black buttons in this screen. These buttons open the automatic (Detect) and the manual (Config.) GPS Setup screens. For information on how to set up the GPS connection refer to section 6.7.

4.5 *Route Information screen*

The Route Information screen has all the data and some of the functions you need while you navigate. Some additional functions can be found in the Route menu (4.6.3). Without an active route one of the buttons is inactive and route data cannot be displayed.

As a reminder, you can open this screen three ways: pushing the Route Information hardware button (3.1.6), tapping the Info button in the Route menu (4.6.3.6), or tapping one of the Route Data fields on the Cockpit screen.



4.5.1 Route data displayed (for destination and via points)

In the top section of the screen you see information about the current route. These fields are continuously updated while you keep this screen open.

When you open the screen, all fields contain information on reaching your final destination. Tap any of the fields to see data on the via points starting from the first one through the final destination again.



4.5.1.1 Route line

The upper part of this screen shows your planned route as a horizontal line. Its leftmost point is the start of the route, the rightmost one is the final destination, and you can see your via point flags along the line, spaced in proportion to their distance.

The green arrow representing your position will travel from the left to the right, giving you visual feedback of your journey.

When you reach a via point, it becomes the starting point of the route, the past will be deleted, the line with all the other via points will be modified instantly, and the arrow jumps back to the left.

When Mio Map needs to recalculate the route, the arrow will not jump back to the left as when reaching a via point, but it may drift a bit as the length of the new route may be different from the previous one.

When the data corresponding to the entire route is displayed in the fields below, the whole line is coloured orange as the route line shown on the map. When you see data that belongs to a via point, the route is coloured only up to that via point. The rest of the line remains grey.

4.5.1.2 Distance Left

This value can also be displayed in one of the Route data fields on the Cockpit screen as 'Distance to destination'. This is the distance you need to travel on the route before reaching your final destination.

If via points exist, tap and tap again any of the fields to see the distance to reach the first, second, etc. via point.

4.5.1.3 Method

This field shows how the route was calculated. It either displays the 'Route' or the 'Vehicle' field from the Route parameter settings. If you have chosen Car, Taxi, Bus or Lorry, the type of the route (Fastest, Shortest or Economical) will be displayed here; if you have selected Emergency, Bicycle or Pedestrian, this information will be displayed here.

4.5.1.4 Time Left

This is an estimated value that can also be displayed in one of the Route data fields on the Cockpit screen as 'Time to destination'. It shows the time needed to reach the final destination of the route based on information available for the remaining segments of the route. The calculation cannot take into account traffic jams and other possible delays.

If via points exist, tap and tap again any of the fields to see the time needed to reach the first, second, etc. via point.

4.5.1.5 Estimated Arrival

This is an estimated value that can also be displayed in one of the Route data fields on the Cockpit screen as 'ETA to destination'. It shows the estimated arrival time at the final destination of the route based on information available for the remaining segments of the route. The calculation cannot take into account traffic jams and other possible delays.

If via points exist, tap and tap again any of the fields to see the estimated arrival at the first, second, etc. via point.

4.5.1.6 Destination / Via point

This field shows the exact address (or its coordinates if the address is not available) of the final destination.











If via points exist, tap and tap again any of the fields to see the address or coordinates of the first, second, etc. via point.



4.5.2 Warning icons

The following 5 squares are normally grey. Some of them turn red and show a graphical symbol in case warning(s) are attached to the planned route. These are warnings, so icons always show information for the whole route, even if the data fields display values from your current position to a via point only.

Click on any of the icons to show its description.

A few samples of the available icons:

-  - This icon shows that you need to pay toll on the recommended route.
-  - This icon shows that the route contains motorways. Tap the icon to see the total length of the motorways in the recommended route.
-  - This icon shows that toll roads are included in the recommended route.
-  - This icon shows that you need to board a ferry along the recommended route.
-  - This icon shows that you need to pay for the ferry.
-  - This icon is displayed when Mio Map could not plan a route with all your road type preferences respected. Sometimes it is impossible to find a suitable route near the start or the destination.
-  - This icon warns you that Mio Map had to recommend a route that does not match all your preferences given at the Route Parameters settings.
-  - The recommended route contains areas only accessible to pedestrians.
-  - The recommended route contains unpaved roads.
-  - The recommended route contains roads that require a permit or permission to enter.

-  - Information – any other piece of relevant but not categorised information. Tap the icon to see the content.
-  - Next page – displayed when more than 5 warnings apply for the recommended route.

4.5.3 Fit to screen

Tap this button to display an overview of the whole recommended route. You will jump to the Map screen with a 2D North-up view so that you can check where the route takes you.

4.5.4 Parameters

This button opens the Route parameter settings screen (6.3) otherwise opened from the Route menu (4.6.3).

4.6 *Menu*

The Menu button can be found in the top right corner of the portrait and square map screens and in the bottom left corner of the landscape map screens. Tapping this button brings up a menu that allows you to access some of the most frequently used functions of Mio Map.

4.6.1 Find tab

The first page of the Menu is Find. It lets you select a destination without first having to locate it on the map. The Find menu will be described in detail later in 5.3.



4.6.2 Quick tab

This provides quick access to some configurable options. Remember that symbols on the buttons show the state of the function they are switching to, and not the one the program is currently in. For example with daylight colours you see the moon, while with night colours the sun is depicted on the button that switches between the two colour modes.



4.6.2.1 2D / 3D Map (switch)

This button switches between the top-down and the perspective views of the map screen. The states of this button are:



In 3D mode the map shows a perspective view. You can use the tilt buttons (4.3.3) to change the angle of the view if they are enabled with the switch right from this one (4.6.2.2). In 2D mode, the map is displayed in a conventional top-down view. This view is also the end of the tilt range, so it can also be accessed by tilting the map up. Conversely, 3D mode can be switched on by tilting down in 2D mode. Map view modes are described in 4.2.1.



Note: When you reach 2D view by tilting the map during navigation, Smart Zoom will tilt down the map as you press the Lock button. Use the 2D/3D button to permanently switch to 2D view.

4.6.2.2 Zoom & Tilt (switch)

This button makes an additional map control available. The states of this button are:



When this feature is turned on, additional transparent buttons (4.3.2 and 4.3.3) appear on the left side of the map screens for zooming and tilting the map.

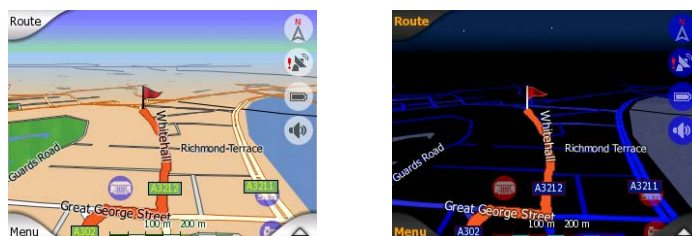


4.6.2.3 Daylight & Night Modes (switch)

This button switches between the daylight and night colour schemes of Mio Map. The states of this button are:



Turn on or off the night colours manually to override the automatic colour scheme switching.



Note: Using this option turns off the Automatic Night Colours feature. You need to re-enable it at the General settings screen (6.1) to have the colours change automatically again.

4.6.2.4 Manage POI (Points of Interest)

Here you can set all the parameters of POIs that you have created and the visibility of the built-in POIs that come with the map.

Manage built-in POI visibility

The maps in Mio Map come with a huge number of POIs. Displaying all of them would make the maps too crowded (to see how POI items are shown on the map see 4.2.8). In order to avoid that, you can decide which POI groups to show and which ones to hide on the map. Mio Map has a multi-level POI category system. You can

set the visibility of the top two levels. All levels below that will be shown or hidden according to their respective category (i.e. you can set the visibility of Petrol Stations in the Services category, but all brands listed under that will either be shown or suppressed together).



Groups shown with a grey icon (🚗) are hidden; blue icons (🏠) are visible on the map, while the ones shown in two colours (📧) have some of their subcategories shown and some others hidden.

If you highlight any of the POI groups by tapping them, the button in the bottom left corner will become Show if the POI group is hidden, or Hide if the group is shown or partly shown.

Tip: To make a partly shown group fully shown, tap this button twice. First you will hide the whole group, and then you will have it displayed with all its subgroups.

Tapping again the highlighted POI group (except for My POI – described later) opens the list of subcategories of that group. Here you cannot see bicolour subgroups, as visibility can only be set for the top two levels of categories. Showing and hiding a subgroup is done the same way as for the main groups.



Manage My POI

By highlighting then tapping again the My POI switch on the Manage POI main screen you can manage the POI groups and items that you have created.



Note: The group Unnamed only appears if you have previously saved a POI item without creating a new POI group for it.

Note: If there are valid entries in the Contacts application of your Mio DigiWalker, the ones Mio Map can recognise the address in will be imported as My POIs, added to a new group named Contacts. Each time Mio Map starts, it reloads the points from the Contacts application database. With the help of these points you can plan a route to any of your contacts by only a few screen taps.

Tapping any of the group names will open a list of POIs saved in that group. This list is similar to the list of POI results in Find. The POIs are ordered based on their distance from your current position. If GPS position is not available or you have disabled Lock-to-Position by tapping the map, the POIs will be ordered by their distance from the Cursor.



When the My POI Groups are displayed, you have the following options:

- **Show/Hide:** similarly to built-in POIs, you have the possibility to show or hide all POIs of the selected category on the map. Groups with a blue icon are displayed; groups with a grey icon are hidden.
- **New:** you can create a new My POI group by tapping this button. You need to select an icon, a name, and the maximum zoom level at which the POI is still visible on the map (provided you let the POI group be displayed at all). You do not necessarily need to create POI groups in advance. You can do it while saving a new POI.
- **Delete:** you can delete any of your previously saved My POI groups. This will delete all POIs in that group. Mio Map will ask you to confirm this action.
- **Edit:** you can edit the attributes (name, icon, visibility level) of a previously created My POI group.



- Left/right arrows: if your groups fill several pages, these buttons in the bottom right corner will let you browse through them. The green field left of these buttons shows the current page number and the number of pages.

When the list of My POIs is displayed, you have the following options:

- Filter: you can shorten the list of matching POI items by filtering. Just like in Find, enter a few letters of the desired POI name. When the number of matching items can fit in one page, Mio Map will automatically display the list. If you tap Done any time before this happens, you receive the list of matches on multiple pages.
- ABC/Distance: by tapping this button you can have the POIs sorted in an alphabetical order. Tapping again will return to the distance-based order.

When you tap on any of your POIs in the list, you will open a new window with the details of the selected POI.



Here you have the following options:

- OK: if you tap this button, the map screen returns with the selected POI in the middle.
- Edit: you can edit the attributes (name, group and icon) of the selected POI.



- **Delete:** you can delete the selected POI. Mio Map will ask you to confirm this action.

4.6.2.5 Popup Information (switch)

This button enables or disables the popup information of the Cursor on the map screens. The states of this button are:



When this feature is enabled, tapping the screen (activating the Cursor, a radiating red dot) on either of the map screens also opens a pop-up box with the selected street name, house number and the name of the nearby POIs, if any.



Tip: Tapping one of the blue Information icons behind the POI names shows the details of the appropriate POI item.

4.6.2.6 Manage Track Logs

Using Mio Map it is also possible to save the track logs of your journeys. This screen lets you manage all your track logs. When it comes up, it shows a list of all track logs already saved.



The original name of a track log is the date and time when it was recorded. You can change their name to something more meaningful if you wish.

Each track log has a colour, shown to the left of its name when the track log is visible on the map. If the track is not visible, an underscore character is shown here. Tapping the line of the highlighted track log will toggle between showing and hiding that log. The track log will be drawn on the map using the colour next to its name.



When a track log is being recorded, a new line appears in this list with an underscore, as newly recorded track logs are not shown in the map normally.



Tip: If you wish to see the track log currently being recorded, tap on it twice to make it visible.

In this screen you have the following options:

- Record: this will initiate track log recording. A new line appears in the list, and GPS position data will be saved until you stop the recording or exit Mio Map. A red icon (4.3.12) is shown on the map screens to let you know that a recording is in progress. Tapping that icon opens this Track Log screen.
- Stop recording: if recording is in progress, this buttons stops it.
- Info: this button opens a screen that shows the track log details, and lets you:
 - change the name of the track log (Rename button),
 - change the colour of the track log (Colour on the map selector), or

- have it displayed on the map (Fit To Screen button).



- Replay: push this button to see a simulation of the saved track log on the map. A green icon (4.3.12) will appear on the map screens to let you know it is not a fly over but a simulation based on a real saved log.
- Delete: you can delete a track log if it is not needed any more. Mio Map will ask you to confirm this action.

4.6.3 Route tab

This menu contains options to manage different settings in the program.



4.6.3.1 **Recalculate**

This menu point is only available if an active route exists and GPS position is present.

It brings up a menu with four options. Using one of these functions you can modify the current route.



Recalculate

This function repeats the route calculation based on the same settings as used to calculate previously. This possibility is typically used when automatic off-route recalculation is disabled. However you may consider using it when you travel on a

road parallel to that recommended by the route. In this case Mio Map may not recalculate the route for some time, but you can force recalculation here. This is also the button you will most frequently use when the window appears automatically, provided that the manual route recalculation is set in 6.1.8.2.

Drop Next Via Point / Delete Route

You can modify the route to skip the next via point if you decide it is no longer needed. For example, you may have added the via point only to influence the route but you do not want to actually reach it; or you have already almost reached it, and Mio Map still keeps on navigating towards that point. When there are no via points left (only the destination), the name of this button turns to Delete Route, and it cancels the navigation.

Bypass

When you run into a traffic jam or roadblock, you may want to have Mio Map calculate a route that departs the original route as soon as it can. You will need to select the minimum distance along the original route where your new route is allowed to rejoin the original route. Select the one you feel appropriate for the traffic difficulty you face.



Note: This function is to give you an alternative for the next section of the recommended route. To change later parts of the route or to avoid specific streets or turns, use the Avoid function in Itinerary instead (4.6.3.3).

Note: When you use this feature, Mio Map will keep on excluding the same part of the map from later routes until you manually delete the route (4.6.3.2), or restart Mio Map.

Cancel

This option returns directly to the map screen without recalculating the active route. If you choose this option when manual route recalculation is configured in 6.1.8.2, navigation stops and will be activated again when you are back on your original route.

4.6.3.2 Delete

Tap Delete to erase the active route along with all its route points (start, via points and destination). If you later decide that you need the same route again, you will have to rebuild it from scratch. Mio Map will warn you before deleting route data.

This function has a special role if you have used the Avoid feature during your journey. When you arrive at your destination, the route line disappears on the map and navigation stops. The route is now practically deleted, but if you plan a new route, the roads, manoeuvres and areas excluded from your route will also be avoided when planning the new route. Tap Delete to completely delete your previous route together with its Avoid restrictions.

Note: When a POI item is used as a route waypoint, deleting the route will not delete the POI item itself, just its role in the route.

4.6.3.3 Itinerary

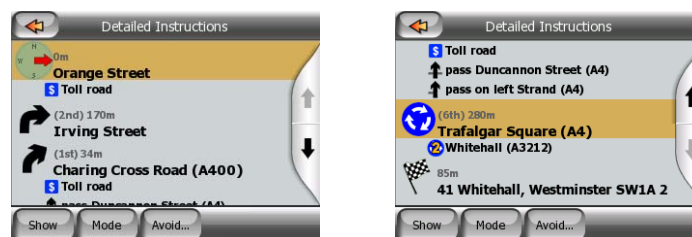
This function opens the itinerary (route event list) of the active route. The Itinerary has three different display modes and two functions.

Display modes

Display modes are different only in the number of events displayed in the list. List items are always shown with all information available including pictograms of the needed action and distance of the event from the previous list item.

The Itinerary is live and constantly updated when navigating a route. The list item coming next in navigation is the highlighted one until you highlight another one by tapping. After that, the highlight remains on the item you have selected.

- Detailed Instructions: this is the list displayed when Itinerary is opened. It is the list of events in full detail. All significant junctions are shown in the list, even ones to be passed.
- Instructions: by tapping the Mode button once you will see the list of events that need your attention, i.e. the list of manoeuvres during the route. These are the events shown in the Turn preview field and announced by the voice instructions.
- Route summary: tapping the Mode button again will show an overview of the route that contains only the significant roads and intersections.

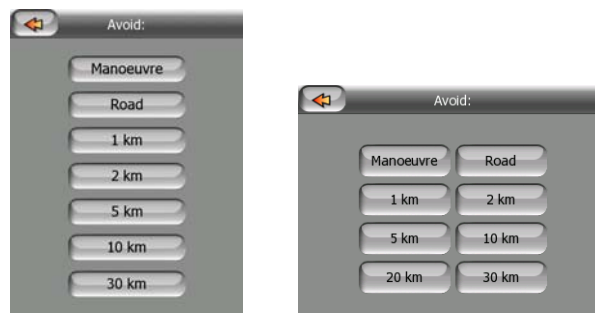


Show

Tap this button to see the highlighted list item on the map. This will help you identify route events in the list.

Avoid

Tap this button to show a list of possibilities for modifying the route. They let you recalculate the route avoiding the highlighted event and sometimes also some of the subsequent ones.



- **Manoeuvre:** this option avoids the highlighted action. For example if you find a turn too difficult during rush hour traffic, Mio Map will recalculate the route excluding that turn. If the next street is important in the route, it is likely that Mio Map will replace the turn with several easier ones to get to the same street.
- **Road:** when you exclude a road, Mio Map will calculate a route that does not use that road. It is useful when you anticipate a traffic jam in a street used in your route, or a roadblock is announced on the radio, and you find that road in your Itinerary.
- **Distances:** you can also find some distance buttons in this list. They are similar to the ones in the Bypass list of the Recalculation menu (4.6.3.1), but these can also be used for distant parts of the route.

Note: You need not open Itinerary if you run into a roadblock or traffic jam. To get an immediate alternative route use the Bypass function of Recalculate (4.6.3.1).

Note: When you use this feature, Mio Map will keep on excluding the same part of the map from later routes until you manually delete the route (4.6.3.2), or restart Mio Map.

4.6.3.4 Fly Over

This feature has no navigation function, it merely provides a quick view of the route. It will present a simulation of the route showing what you will see later when navigating. There are two possibilities for running the simulation.

Fast Fly Over

Press and hold the Tilt down button (3.1.2) then tap Fly Over to quickly run through the route. Mio Map will fly the route in Cockpit mode at high speed to give you a rough overview of the route events. Mio Map is tweaked to give you a smooth and easy-to-follow playback even at this speed.

This mode is useful if you want to have a look at the route before you start your journey. Tap anywhere on the screen to stop the simulation.

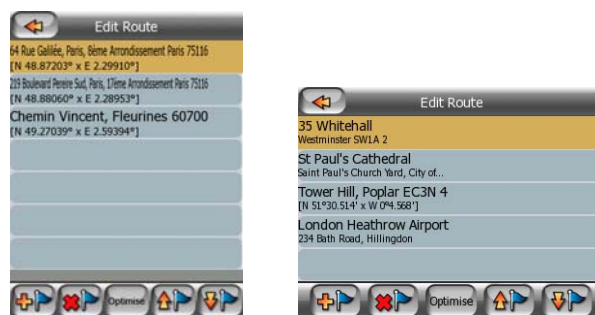
Lifelike simulation

The other way to do a Fly Over is to tap the Fly Over button without pushing the Tilt down button. In this mode the simulation is run at normal speed (using the speed limit of the streets and roads in the route), and voice instructions are also played.






This mode is mainly useful for demonstrating Mio Map, or to learn the way it works before you start your first journey.

4.6.3.5 Edit

Tap Edit to see the list of all points used in the route. The first item in the list is the departure point of the route without a valid GPS position, the last reached via point if you open the list during navigation, or the point where Mio Map most recently recalculated the route. This means the list is permanently updated, and via points drop out during the journey. The last item in the list is your final destination.



Use the arrows on the right to browse through the list and tap any line to highlight it. You can perform the following operations:

- : you can add a new route point (or a new final destination if the highlighted item is the last one in the list) after the selected point. The Find menu opens automatically to let you search for an address, POI, coordinates, one of your favourite destinations, or select a point from the History list. As soon as you select any of these, Mio Map returns to the Edit screen and your selection appears right under the highlighted line.
- : you can delete the selected point from the list. If the highlighted item is the last one in the list, the previous via point will be promoted to be the final destination.
- : you can optimise the order in which you will drive through the via points, if there is no specific order you would like to keep. When tapping this button, Mio Map reorders the list instantly to save you time and fuel. Optimisation is for via points only. Your starting point and destination remain in their positions, of course.
-  and : using these buttons you can reorder the list by moving the highlighted item up or down in the list.

4.6.3.6 Info

This button opens the Route Information screen described in 4.5. This screen shows information about the current route and has a few additional options to check and modify your active route.



4.6.4 Main button

The Main button at the bottom right corner leads to the Main menu screen described in 4.1.

4.7 Speed cameras

There is a built-in database of thousands of fixed and mobile speed cameras in Europe. It is also possible to add new cameras to enhance this database. Mio Map can warn you when you approach one of these cameras. You can fine-tune this warning in General settings (6.1.5).

Speed cameras are displayed with small camera symbols on the map.



4.7.1 Camera types

There are four types of speed cameras:

4.7.1.1 Fixed cameras

Some cameras stand by the roadside, looking in one direction, measuring one or both directions of the traffic. They measure your current speed. For these cameras

you can specify the controlled traffic direction and the speed limit. Mio Map will warn you when you approach these cameras in the measured direction. If your speed exceeds the speed limit near the camera, a special warning sound will be played.

These cameras are displayed with the following symbol:



4.7.1.2 Mobile cameras

Some cameras are operated from vehicles. The database contains some typical places of these mobile cameras. They are not always operational at the given location, and the speed limit is not specified for them. The warning is similar to fixed cameras, but as there is no speed limit given, only the proximity is announced.

These cameras are displayed with the following symbol:



4.7.1.3 Built-in cameras

Some cameras are built in traffic lights. They work like fixed cameras, but they are difficult to spot. The warning for proximity and speeding is the same as for the fixed cameras.

These cameras are displayed with the following symbol:



4.7.1.4 Section control cameras

These cameras work in pairs, and do not measure your current speed but your average speed between the two cameras. Both will identify your car, and record the exact time you pass them. The difference between the two points of time will be used to calculate your average speed.

Mio Map will warn you when you approach one of these cameras, but as you pass by, the warning stays on, and your average speed is measured until you reach another camera of this type. If your average speed exceeds the speed limit between the two cameras, you will receive the same special warning sound as with the other camera types.

Note: In the rare case Mio Map cannot register the moment you pass the second camera (e.g. it is placed at the exit of a tunnel where GPS position is not yet available) the warning will continue. Just tap the camera symbol displayed on the left to stop the warning.

These cameras are displayed with the following symbol:



4.7.2 Controlled traffic direction

The different cameras can measure the speed of one direction of the traffic, both directions, or even several directions in an intersection, when they are mounted on a rotating base. Mio Map warns you only if you drive in a measured or possibly measured direction.

The measured direction of the cameras are displayed with the following symbols:



4.7.3 Speed limit checked

As additional information, the speed limit checked by the camera is given for fixed, built-in and section control cameras. When you save a camera location using the Add Cam button in the Cursor menu (4.3.13), the speed limit of the road is used by default, but you can change the value from 30 km/h to 130 km/h with the given control:



4.7.4 Add a new camera or edit an existing one

You can add new cameras, delete or modify the parameters of existing ones using the Add Cam or Edit Cam buttons of the Cursor menu (4.3.13). To delete an existing camera first tap Edit Cam, then Delete.



4.7.5 Change the settings of the camera warning

You can turn on and off the camera warning, and fine-tune its settings in General settings (6.1.5 and 6.1.6).



4.8 TMC

Mio Map can provide you with even better routes if Traffic Message Channel (TMC) information is available. The TMC is a specific application of the FM Radio Data System (RDS) used for broadcasting real-time traffic and weather information.

You need a TMC receiver attached to your Mio DigiWalker to receive TMC information.

Mio Map automatically takes into account the TMC information received. You do not need to set anything in the program. The receiver will automatically search the FM radio stations for TMC data, and the decoded information will immediately be used in route planning. The moment Mio Map receives traffic information that may affect your route, the program will warn you that it is recalculating the route, and navigation will continue with a new route that is optimal considering the most up-to-date traffic conditions.

The TMC subsystem can be started from the GPS Data screen (4.4) by tapping the TMC button.



4.8.1 List of TMC messages

The main screen of the TMC section shows a list of current TMC messages ordered by their distance from your current location.



Tap the arrows to turn the page, and see traffic difficulties farther away from your current position, or press Settings to configure the TMC subsystem. This opens a new window.

4.8.2 TMC control centre

This screen shows the selected TMC source and allows you to change the TMC settings.



4.8.2.1 Selected FM radio station

The name and frequency of the selected radio station will appear at the top of this window, together with signal strength information indicated by a bar similar to the GPS satellite signal strength bars on the GPS Data screen.

If there aren't any radio stations broadcasting TMC data in your area, the receiver keeps on searching. You will see the frequency continuously sweeping across the FM CCIR radio band (87.5-108 MHz). When you move to an area with TMC information, the indicator will show the frequency, and detailed information for the TMC station.

4.8.2.2 Exclude selected station

If you wish to receive TMC data from another radio station, push this button. The radio station will be added to the list of excluded stations, Mio Map will start searching for another TMC station, and will always skip the excluded station in the future.

4.8.2.3 Show excluded stations

This button opens the list of excluded radio stations. Tap any of the stations in the list, then tap Enable to allow Mio Map to accept TMC information from this station.



4.8.2.4 Sort events by distance / type

The list of traffic events can be ordered by their distance from the current position, or by their type. Tap this button to toggle between the two possibilities.

4.8.2.5 Use traffic information

This button is enabled by default, which means that TMC messages are used in route planning. Tap this button to have Mio Map ignore real-time traffic information when planning routes.

Tip: If you are setting up a route for a future journey, it may be better to turn off TMC.

4.8.2.6 Recalculate to avoid traffic

This setting is similar to the previous one. Disabling it will not prevent the system from using TMC data for route planning, but will not trigger an automatic recalculation when the traffic conditions change during your journey.

5 Find

One of the most frequently used functions of Mio Map is selecting the destination. Once you have the destination, you can start navigating. Getting to this point should be as fast as possible. Mio Map provides you with a versatile search engine designed to find your chosen destination after only a few taps on the screen.

Note: If you select a location in any part of the Find system, you will normally drop back to the map screen, where you will have several possible actions (set as start, set as destination, add as via, continue route with, add as a speed camera, or add as a POI item). However, if you enter the Find system from the Main menu, Mio Map will immediately put you into Cockpit mode and start navigation.

5.1 Main menu Find buttons (Address, Favourites, POI, History)

As just mentioned, the fastest way to find your destination and start navigating is to start from the Main Menu (4.1) with one of the Address, Favourites, POI or History buttons. These will put you on the respective Find screen, and as soon as you pick a destination, Mio Map will immediately show the Cockpit screen and start navigation. This means that if you plan your route to one of your Favourite destinations, you only need two taps (e.g. Favourites then Home) to start navigating.

You will find similar buttons in the Find menu (5.3) accessible from the map screens. Activated from the map screens, they will only move the cursor to the desired location, but will not directly initiate navigation.

5.2 Selection by tapping the map

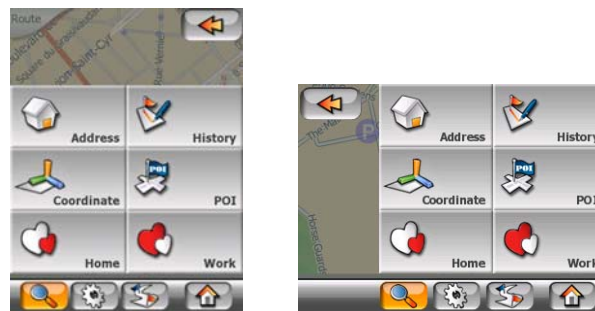
It is also very easy to set your destination using the map. Just browse to your desired destination on the map, tap it, and the Cursor menu with the possible actions will then open automatically.

Note: When appearing automatically, the Cursor menu remains open for a few seconds only. If you decide not to choose any of the actions listed, the menu closes automatically. When you open it manually, it will remain until you close it or switch to another screen.

Tip: If you want the selected point shown in the centre of the map, close and reopen the Cursor menu or wait until it closes and open it again. By opening the Cursor menu manually, the map will be moved to have the selected location in the centre.

5.3 Using the Find menu

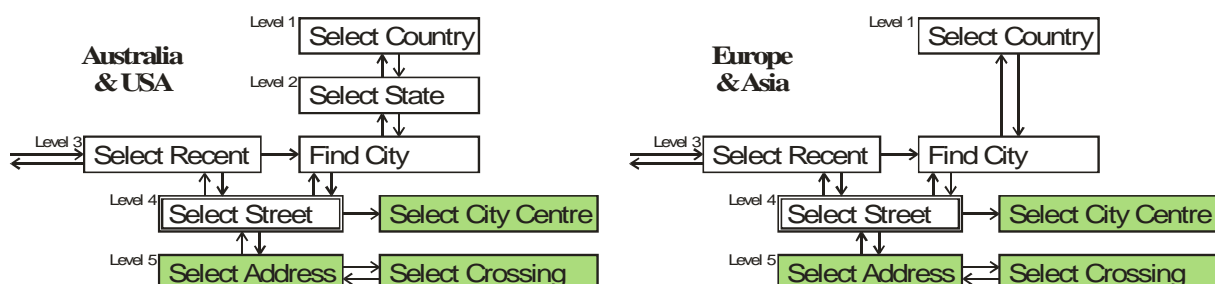
The Find menu is accessible through the Menu buttons of the map screens (4.3.7). The Find menu gives you various possibilities for selecting a location.



5.3.1 Find an Address, Street, Intersection or City

Searching for a city, a street, an intersection, or an exact address can all be done in the Find Address module. If you know at least a part of the address, this is the quickest way to find the location.

The following figure shows the structure of the address-search module. There are five levels (Country, State, City, Street and Address). The state level only appears for Australia and the United States of America. This level is not used in all other countries that Mio Map currently supports. The list of recent cities and states is the entry point of the module. The green rectangles are the exits. You can complete your search by selecting the centre of a settlement, the midpoint of a street, an intersection of two roads, or an exact address.



You enter the module at Level 3. From this point you can go forward (down) to give the name of the street, then the house number or intersection, or backward (up) to change the city, state or country to search.

5.3.1.1 Selecting the city, state and country to search in

The first screen of the address-search module is the list of recently used cities (and states in Australia). The first line of the list is always the city you are in or near to (Europe, Asia and USA), or state you are in (Australia).



Should the settlement you are looking for appear on the list, just tap it and you will immediately jump to the Street Name Input screen with the selected city name or postcode shown at the top of the screen. If the desired settlement is not displayed, use the arrows in the bottom right corner to see more of this list.

Tip: If during navigation you need to know the name of the city, the state or the country you are currently in, just start Find/Address and read the first line of the list. This function leads to a reliable result only if GPS position is available, and you have not disabled Lock-to-Position by moving the map.

If you find that the list of recently used cities contains settlements you will not visit in the near future, you can choose to empty the list by the Clear button in the bottom left corner.

Selecting a new settlement to search in

If you are looking for a city or town (or state) that you cannot find on the list, tap Other City in the top right corner. This will take you to the city name or postcode input screen, where you can select the desired city by entering a few letters of its name or some digits of its postcode. Once you enter enough letters or numbers for a one page long list of possible candidates, Mio Map will provide this short-list automatically. If you would like to see all the possible candidates after entering only a couple of letters or numbers, tap Done, and page through the list of results.

Note: Postcodes may not be available for the selected country. In this case you need to enter the name of the settlement.



You can enter the city name using an alphabetic input screen (either an ABC- or a QWERTY-type). You only need to enter the first few letters, as the program only searches among the settlements that exist in the given state or country. If the name of the settlement is of more than one word, you can enter the first few letters of one or more of those words. You can search for multiple partial words by inserting space characters in the pattern. For example Key West in Florida will be found if you enter 'Ke W' or even 'We K' (any word order will do).

You do not need to enter accents when searching for a destination. Type only the base letters (the letter most similar to the accented one) and Mio Map will search for all their combinations in the database (e.g. for the Canadian town 'Dél  age' you only need to type 'Deleage', and the rest is done by the program).

As you start typing, Mio Map will calculate the number of settlements matching your entry. This number is shown at the right end of the input line. If all the matching city names can fit on one screen, the sound played when hitting the key will be different, and Mio Map will show you all the results in a list. You can select the one you are looking for by tapping the appropriate list item.

Note: When more than 300 items (a list of more than 60 pages) match the fragment that you have entered, Mio Map stops searching, and displays '>300' at the right end of the input line. Enter more letters to narrow the list.

Note: When the name of the settlement contains a character that is not available on the keyboard (e.g. apostrophe or dash), Mio Map considers it a space that splits the word. That is why you can search for 'Alleyn-Et-Cawood' with all the following search criteria: 'A E C', 'Et A', or 'Al Ca'.

Tip: If you have finished entering the street name and the matching names still take up more than one page, just tap Done, and select your desired settlement from the list. Turn the pages with the arrow buttons in the bottom right corner.

Tip: In case you are looking for a city name that has more than one word, you can reduce the list of matches faster if you enter a few letters from each word.



Note: If any of the settlements on the list has named suburbs or numbered districts that also appear separately in the map, a Show districts button will appear in the bottom left corner. Tap this button to list the suburbs together with the main settlements. The button will turn to Hide districts, and tapping it will return to the original, shorter result list.



Once you have selected the city, you can continue by entering the street name as described in 5.3.1.2.

Changing the state (Australia and USA only)

The maps of Australia and the USA contain state information. If the settlement you are looking for is in a different state, tap Other City then Change State from the list of recently used cities, then select the appropriate state. Should you wish to search for an address in the whole country, just tap <All states> at the beginning of the list.



When the state is selected, you need to select a settlement by entering a part of its name or postcode, then selecting from the list of available matching items as described before.

In Australia you can skip this part by tapping Done before entering any letters. This way you can search for a street name in the whole state. In the USA this step is compulsory. If you press Done before entering any letters, the list of settlements will appear in a list in alphabetical order.

Changing the country

If your destination is in another country, tap the Change Country button in the top right corner of the state selection screen (Australia and USA), or the city selection screen (Europe and Asia), and select the country from the list.



5.3.1.2 Selecting a street or the centre of the settlement

Once the settlement (or state in Australia) is selected, you can continue by specifying the street you are looking for.



Selecting the centre of the settlement

If you wish to navigate to the selected settlement displayed in the top centre of the screen, just tap City Centre in the top right corner. The search result will be the centre point of the city (where its name is displayed on the map).

Note: This point is not the geometrical centre but an arbitrarily selected point chosen by the creators of the map, usually the most important intersection in case of a small town or village, and for larger cities an important intersection in the city centre.

Selecting a street

If you are looking for an address or an intersection within the settlement shown at the top of the page, you need to first enter the street name you are looking for.

Tip: If you are looking for an intersection, choose the street that has a rare or unusual name first. This way you need to enter fewer letters to get the list of results. You may also choose the shorter of the two streets first. This way the list of crossing streets will be shorter, and it will be faster to choose the second street the after the first one has been selected.

Tip: You can search for both the type and the name of a road. If you have the same name appear as Street, Avenue, Boulevard, Road, Place and Court, you can get the result faster by giving the first letter of the type, too. For example searching for 'Pi A' will result in Pine Avenue skipping all Pine Streets and Pine Roads.

Tip: Should the name of the street be a prefix for several other street names, just enter the whole name, press Done, and the exact match will be the first in the list. This way you can easily find even very short street names.

As soon as you select a street, you are automatically taken to the House Number Input screen (5.3.1.3).

5.3.1.3 Selecting a house number or the midpoint of the street

Once the country, the city and the street name are selected, you are asked to give the house number using the numeric keypad. The range of available house numbers for the chosen street is shown in the input field before you begin entering the figures.



Enter the number, tap Done, and Mio Map will show you the selected location on the map (or will start navigating immediately if you have selected Find Address at the Main menu screen).

Note: House numbers may not be available on the map of your region. Ask your local dealer for details.

Tip: If you do not know the house number, just press Done, and the midpoint of the street will be used as the selected location.

5.3.1.4 How to select an intersection instead of a house number

If you do not know the house number or it is easier to pinpoint the location with an intersection, press the Find Intersection button in the top right corner and select the desired street name from the list of available intersections of the previously selected street (displayed in the top centre of the screen). The crossing of the two streets will be the selected point.



5.3.1.5 An example for a full address search

This is an example for a complex address search, finding an address from abroad. In this example your current position is in Europe but not in France, and you are looking for an address in Paris, France. The address is '17 rue d'Uzès'. Here is one way to find the address after entering the Find Address section:

- You see the list of recently used cities. Paris does not appear in the list.
- Tap Other City in the top right corner.
- Since you are in Europe, there is no state level between cities and countries, so tap Change Country in the top right corner to change the country.
- Tap France in the list.
- Now select the city in France. Enter 'Paris' using the virtual keyboard.
- As several settlements have Paris in their name, the list of cities is not shown automatically. Tap Done to get the list of settlements containing 'Paris'.
- The first settlement in the list is Paris itself, as it is the exact match. Tap it.
- Now you need to enter the name of the street.
- You need not enter accents, the apostrophe, and you can enter more of the words in any order separated by spaces. Enter 'R D Uz', 'D Uz', 'Uz', and 'rue d'Uzès' automatically appears; or enter 'R D U', 'U R D', 'Ru U', and tap Done to get the list of matching street names.
- Either way you get the list, tap 'rue d'Uzès' to select the street.
- Now you see the numeric keypad, where you need to enter '17' and tap Done to finish the process: the map will show '17 rue d'Uzès, Paris, France'.

5.3.2 Find in History

If you have used Find before, or saved map points as POIs, marked points with a pin, or picked and used points of the map before, they all appear in the History list.

This list is ordered by the time the points were last used. The most recently used locations are always at the beginning of the list.



Just pick any of the recent locations as your destination. Here you have no possibility to reorder the list or filter it by name, but the Next and Previous buttons let you browse through the complete list to find your preferred point.

5.3.3 Find Coordinates

Mio Map also lets you enter your destination by map coordinates. The coordinates need to be in latitude/longitude format and, based on the WGS84 earth model (the one used by most GPS devices).



When you enter this page, the coordinates of the current GPS position (or the selected map point, the Cursor, if Lock-to-Position is inactive) are shown at the top of the display.

The coordinates are always shown in 'broken degrees' format, but you can enter the coordinates in any of the three latitude/longitude formats (broken degrees; degrees and broken minutes; or degrees, minutes and broken seconds). You can even enter the latitude and longitude in different formats.

Entering a latitude/longitude pair is easy. The left field contains the latitude. It starts with an 'N' (North) or 'S' (South) letter. This tells Mio Map whether the point is in the Northern or the Southern hemisphere. Use the **N/S** button to change the hemisphere. Enter numbers for the latitude. Use the decimal point if the degrees, minutes or seconds are not integers. Use the **°**, **'**, **"** button (the label depends on the current cursor position inside the latitude) to start entering minutes after degrees or seconds after minutes.

When finished, tap the longitude on the right, and enter it as you did latitude. This time the hemisphere-changing button **E/W** tells Mio Map whether the point is located East or West from the meridian crossing Greenwich, UK.

Once you have entered both numbers, press Done to make the selection.

Tip: The quickest way to tell the coordinates of a point is to select it by tapping on the map or by using Find, and then come to this page and read the coordinates.

Tip: If you need to reformat coordinates to degrees and minutes, enter the coordinates in the format you have, press Done to show it in the map, then come back here to see the same location in dd.ddddddd format.

5.3.4 Find a POI

You can select your destination from the thousands of POIs included with Mio Map or from the ones you have previously created. This screen helps you find the one you are looking for. POI items are categorised to let you locate them more easily. On this screen you can see the first page of the top level POI categories. There are three levels altogether.



The search will be carried out around a certain reference point. Always look at the current reference point shown in the green field above the POI category buttons and confirm that it matches what you want. To change the reference, tap the Change ref. button in the top right corner.



Once you tap the Change ref. button, you are presented with these choices:

- Address: you can specify an address to be searched around, or a settlement to search in. The centre of this settlement will be used as the reference point.
- History: the reference for the search can be selected from the History list.
- Coordinates: you can specify a latitude/longitude pair to be the centre of the search.

- GPS Position: the search will be carried out around the current location given by the GPS if it is available. If no GPS position is available, the last known GPS position (grey arrow on the map) will be used.
- Destination: the search will be carried out around the destination of your current route.
- Cursor: the search will be carried out around the previously selected map point.

The current selection is always shown in the green field at the top of the page.

Note: The default reference point for POI search is the current GPS position, if it is available, or the Cursor, when there is no reliable GPS position.

Once you have set the reference point, you have the following options on the Find POI screen:

- Search in POI subgroups: highlight one of the POI groups by tapping or using the direction buttons, then press Enter or tap it again to see the list of subgroups. Using the same action you can move deeper into subgroups.
- Filter from all the POIs of that level: tapping the Filter button will bring up a text input screen to let you narrow the list of POIs. If you tap Filter in the list of subgroups, you will only search in the group you are already in.
- See all POIs of the current group in a list: tapping the All button opens the list of all points in the group or subgroup you are already in. Use the Next and Previous buttons to browse through the list.



Search results are ordered by their distance from the given reference point (nearest first).

Note: In the case of POI items that you have created, you can also see the results in alphabetical order. Push the button with the label ABC that appears between Filter and the page number.

Once the desired POI item is selected, Mio Map will show its details.



Tapping OK will return to the map with the selected POI in the centre (or starts navigating to it if started from the Main menu screen). Tapping the arrow in the top left corner returns to the search results.

Tip: If you want to find the nearest POIs, or if you are close to one of them but do not know exactly where it is or what its name is, tap the All button on the very first screen of POI search, and get a list of the nearest POIs. Use the Next button in the bottom right corner to turn the page if you cannot see the desired place on the first page of the list.

5.3.5 Find one of the Favourites (Home/Work)

If you have already set up your favourite destinations in General settings (6.1.2), you can select either of them by simply tapping the button with the name on it. Using the Favourites function at the Main menu it is only two taps to start navigating.

Note: If you try to access a favourite destination that you have not yet set up, Mio Map will lead you to the setup page.

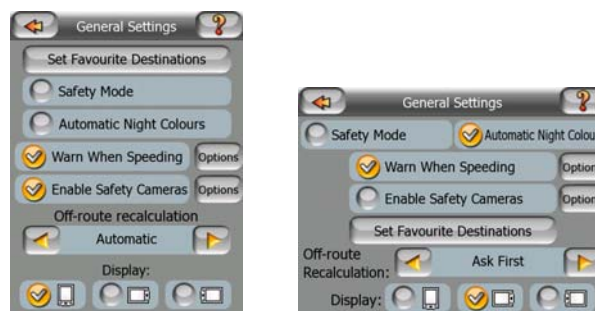
6 Settings

Mio Map provides several settings in order to let you customise the functions of the program. The Settings screen can be accessed directly from the Main menu screen (4.1) and from the map screens by using the battery icon (4.3.10), while some of its sub-screens are accessible from other parts of the program.



6.1 General settings

These are the basic settings of Mio Map.



6.1.1 Safety Mode

Safety mode will disable the touch-screen above 10 km/h (6 mph) to keep your attention on the road. You are still able to use the hardware buttons, but you cannot set a new destination or change the settings.

When you disable Safety Mode, Mio Map will warn you.

6.1.2 Automatic Night Colours

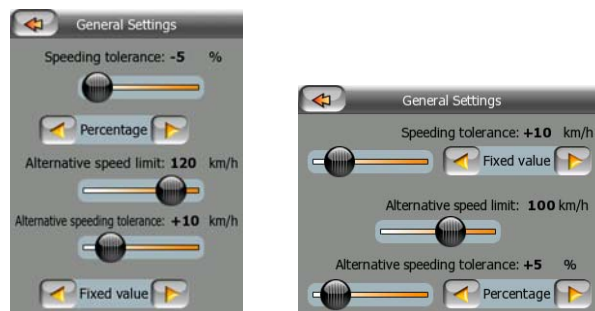
Using the automatic night mode, Mio Map will change between the daylight and night colour schemes a few minutes before sunrise and a few minutes after sunset based on the time and location information provided by your GPS. Once you set a permanent colour scheme in the Quick menu (4.6.2.3), this automatic mode turns off. If you need Mio Map to switch between colours for you again, you need to re-enable this feature.

6.1.3 Warn When Speeding

Maps may contain information about the speed limits of the road segments. Mio Map is able to warn you if you exceed the current limit. This information may not be available for your region (ask your local dealer) or may not be fully correct for all roads in the map. This setting lets you decide whether you want to receive the warnings or not.

6.1.4 Speed Warning Options

When speed warning is turned on, the values of these controls determine when the warning will be triggered.



You can set two different kinds of behaviour for the warning: one is applied up to a certain speed limit and the other one is used above that.

6.1.4.1 **Speeding tolerance**

Mio Map will warn you when you exceed the speed limit by the amount specified here. Select whether you want to specify the tolerance as a Fixed value (offset to the speed limit) or as a Percentage.

The slider will change depending on which mode you have chosen.

Both positive and negative values can be given in either offset or percentage mode.

6.1.4.2 **Alternative speed limit**

If the speed limit of the current road segment equals or is above this limit, the speed warning will use the alternative tolerance instead of the previous one.

Move the slider to its rightmost position to turn off the alternative speed warning. Then the settings of the upper slider will determine the warning for all roads.

6.1.4.3 Alternative speeding tolerance

If the speed limit of the current road reaches the value set at Alternative speed limit, this setting will replace the basic one set at the top of this screen. The slider and the selector work exactly as the basic ones described in 6.1.4.1.

Example: to let you better understand how this feature works, here is an example. If you use the setting of the sample screen (10 km/h – 100 km/h – 5%), Mio Map will warn you when driving at the following speeds:

<u>Speed limit</u>	<u>Warning at</u>	
40 km/h	50 km/h	(=40 km/h + 10 km/h)
60 km/h	70 km/h	(=60 km/h + 10 km/h)
90 km/h	100 km/h	(=90 km/h + 10 km/h)
100 km/h	105 km/h	(=100 km/h + 5%)
120 km/h	126 km/h	(=120 km/h + 5%)
160 km/h	168 km/h	(=160 km/h + 5%)

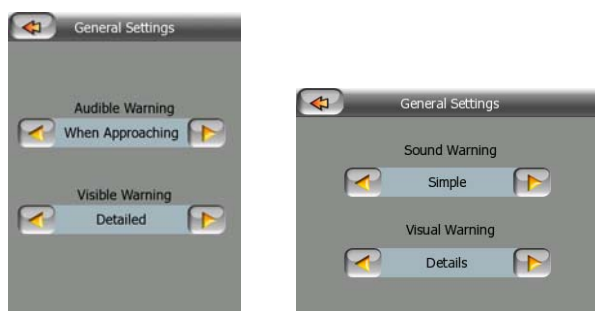
6.1.5 Enable Speed Camera Warning

Mio Map contains a built-in database of known speed cameras throughout Europe, and you can also add further cameras you discover using the Add Cam button in the Cursor menu (4.3.13). The types and parameters of speed cameras are explained in 4.2.9.

In this section you can enable or disable the warning for known cameras, and you can also fine-tune the way Mio Map warns you when you approach one of these cameras.

6.1.6 Speed Camera Options

When speed camera warning is turned on, the values of these controls determine how the user will be notified when approaching a speed camera.



6.1.6.1 Audible Warning

You can disable the audible warning; have a simple warning (when you are warned only if you exceed the speed limit when approaching a camera); or a complex sound with repeated beeps as you approach the camera. In case of section control cameras, you will also hear these beeps while you are between the two cameras (these cameras work in pairs).

You are warned well in advance. The distance Mio Map starts warning you before reaching the camera depends on your speed. The higher the speed, the earlier the warning starts.

6.1.6.2 Visible Warning

Besides this, Mio Map can pop up a visual warning with only the symbol of the camera above the speed limit sign on the Cockpit screen, or you can ask for details as described below.

Approaching a fixed or built-in camera you will see the speed limit checked by the camera, and the remaining distance to reach the area monitored by the camera.



With mobile cameras you can only see the distance from the measured area, as there is no speed limit set.

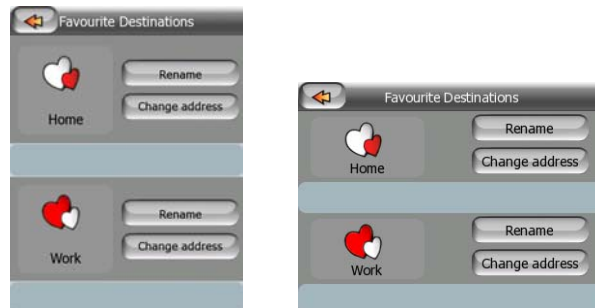


When approaching the first of section control camera pairs you will see the same data as with a fixed camera (speed limit and distance). Then while being between the two cameras, your frequently updated average speed is displayed below the speed limit.

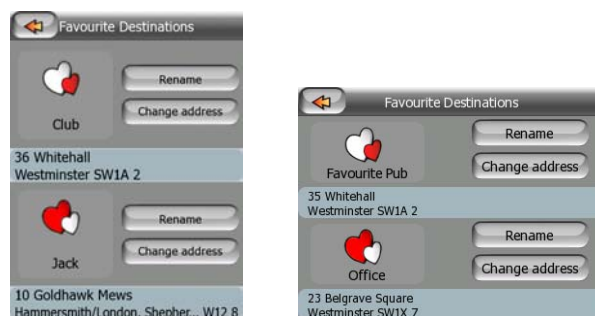


6.1.7 Set Favourite Destinations

You can select two of your most frequent destinations to be your favourites (5.3.5). You can start navigating to either of them by only two taps on the screen. The original names of these points are Home and Work.



You can rename them and specify their locations. To determine the location you can use the same Find menu options (5.3) as for a route destination, and depending on that choice and the information available, the location will be shown here as a street address, a latitude/longitude position, or both.



Note: If you tap either of your favourite destinations in the Find menu (5.3.5) before defining it, Mio Map will offer to take you to this screen to set it up.

6.1.8 Route Recalculation

Once a route is planned, this setting will tell Mio Map what to do when you deviate from that route.

6.1.8.1 Automatic

The route will be recalculated automatically a few seconds after you go astray.

6.1.8.2 Ask First

Mio Map can also ask your preference each time you leave the planned route. The route will not be recalculated until you make your choice from the menu that automatically appears (also explained in 4.5.2).



Your options are:

- Recalculate: Mio Map will recalculate the route with the previous settings. The result is the same as if Automatic recalculation was selected.
- Drop Next Via Point / Delete Route: Mio Map will remove the next via point from the list and recalculate the route without it. If you have only one target left, the label of the button will be Delete Route, and it will end navigation.
- Bypass: if you have deviated from the original route because of a traffic jam or roadworks, you can instruct Mio Map to avoid the original route for a specified distance.
- Cancel: you can exit without recalculating the route. Navigation stops and will be activated again when you find your way back to the original route.

6.1.8.3 Disabled

If you stick to the original route, and you wish to get back to it on your own, you can disable recalculation. This way guidance will stop until you return to the recommended route on your own.

6.1.9 Display Orientation

You can set whether you intend to use Mio Map with a portrait orientation or either of the two landscape modes. This setting is totally independent from the similar Pocket PC setting, so you do not need any extra action later e.g. if you use your PDA always in portrait mode but Mio Map in landscape mode, or vice versa, or you want Mio Map to look the same no matter how your PDA is currently oriented.

6.2 *Sound settings*

Settings on this page determine the way Mio Map sounds.



6.2.1 Master sound volume/switch

The loudness of Mio Map is independent of your device settings. When you run Mio Map, the position of this fader determines the device volume level. When you exit the program, the device settings return.

The left part of this control works as a mute button. Tap to mute all Mio Map sounds. This works in tandem with the Mute button (4.3.11) on the map screens. Switching one of them will change the status of the other.

6.2.2 Voice guidance volume/switch

The switch on the left can turn on or mute Mio Map's audible guidance (voice instructions and speed camera warning). When turned on, the slider on the right will adjust the loudness of voice prompts. In its leftmost position the voice guidance is suppressed, in its rightmost position the master volume applies.

6.2.3 Key sound volume/switch

The switch on the left can turn the key sounds on or off. Key sounds are audible confirmations of either pressing hardware buttons or tapping the touch screen. When key sounds are turned on, the slider on the right will adjust their loudness. In its leftmost position the key sounds are suppressed, in its rightmost position they are played at the master volume level.

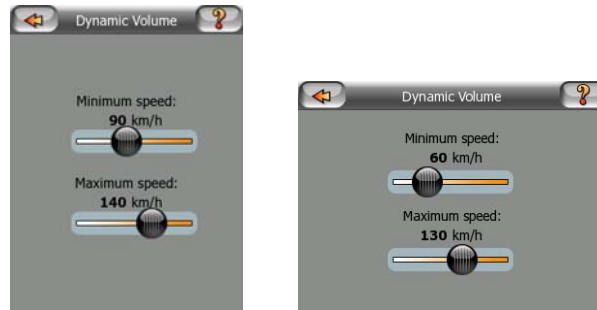
Note: The sound effects of Mio Map are context sensitive. They will be different if, for example you open or close a window, or you enable or disable a setting. They will even let you know if you have entered enough letters of a street name to have a short list of matching streets on the screen.

6.2.4 Dynamic Volume

When driving at high speed, the noise in the car may be too loud to clearly understand the voice guidance messages and to perceive the key sounds. Using Dynamic Volume you can instruct Mio Map to increase the volume when your speed

exceeds a certain minimum, and reach its highest volume (determined by the Master volume slider in Sound settings) at the given maximum speed.

Tap the Dynamic Volume button to turn on the feature. This will also open the screen where you can set the minimum and maximum speeds.



6.2.5 Attention Tone

If this is set to Disabled, the voice guidance will sound without a preceding attention tone. Setting it to Single Tone (Ding) will initiate a single attention tone before the instructions, while Double Tone (Ding Ding) will use a double tone.

Note: The Mute function (4.3.11) accessible from the map screens overrides the settings on this screen. When Mio Map is muted, all sounds disappear. These settings will not be changed; only the output will be muted temporarily.

6.3 *Route parameter settings*

This is a very important page. Settings here determine how routes will be calculated. This screen is directly accessible from the Route Information screen (4.4).



6.3.1 Route

Here you can choose from three different route types.

6.3.1.1 Shortest

Choosing Shortest will result in a route that has the smallest total distance of all possible routes between the given points. This is usually preferred by pedestrians, cyclists or slow vehicles.

6.3.1.2 Fastest

Choosing Fastest will result in the quickest possible route, given that you can travel at or near the speed limits on all included roads. This is usually preferred for fast and normal cars.

6.3.1.3 Economical

This setting is a wise combination of the previous two. Although basically going for the fastest solution, if there is another route taking a bit more time but a lot less distance compared to the fastest one, Mio Map will choose this one instead to save fuel.

6.3.2 Vehicle

You can set the type of the vehicle that you will use to navigate the route. Based upon this setting, some of the road types will be excluded from the route (e.g. motorways for pedestrians), or some of the restrictions may not be taken into account (e.g. emergency vehicles have no restrictions). Available values:

- Car
- Taxi
- Bus
- Lorry
- Emergency
- Bicycle
- Pedestrian

6.3.3 Road types to include/exclude

To let the route fit your needs you can also set which road types are to be considered for or to be excluded from the route if possible.

Note: Excluding a route is a preference. It does not necessarily mean total prohibition. If your destination can only be accessed using some of the excluded road types, Mio Map will use them but only as much as necessary. In this case a warning icon will be shown on the Route Information screen (4.4), and the road not matching your preference will be displayed in red on the map.

6.3.3.1 Unpaved Roads

Unpaved roads are excluded by default, as they can be in a bad condition and you usually cannot reach the speed limit on them.

6.3.3.2 Motorways

When driving a slow car or towing another vehicle, you may prefer not to take motorways. In this case change the default green to red.

6.3.3.3 Ferries

The accessibility of temporary ferries is not necessarily included in the map data. Furthermore you may need to pay fare, so you may consider disabling them from the preset enabled status.

6.3.3.4 U-turns

Although displayed amongst road types, this is a type of action. Most drivers prefer to replace them with a few normal left and/or right turns in the next few junctions, so it is disabled by default.

Turning back on dual carriageways is not considered as a u-turn.

Note: Via points are handled as stopovers with regards to u-turns. It means disabling u-turns on this page will avoid u-turns during the entire route if possible, but when reaching a via point, the following part of the route may be planned starting in the opposite direction.

6.3.3.5 Permit needed

To use some roads or enter some areas you may need special permit or permission from the owners. These roads are excluded from your routes by default. Use this switch if your vehicle is authorised to enter.

6.3.3.6 Toll Roads

Toll roads are included in your routes by default. If you wish to travel more to avoid paying a toll, disabling them will make Mio Map plan the best toll-free route for you.

6.3.3.7 Cross-border Planning

By default Mio Map plans routes using the border crossing points. However if you live near the border, you can disable border crossing with this switch to remain within one country.

6.3.3.8 Use Car Pool

You can instruct Mio Map to use car pool lanes currently available only in the USA.

6.4 Language & Units

Here you can set the languages, measurement units, and date and time formats used by Mio Map.



6.4.1 Program language

This button displays the current written language of the program. By tapping the button you can select from a list of available languages. Mio Map will have to be restarted if you change this setting. Mio Map will ask for confirmation before it restarts.

6.4.2 Voice language

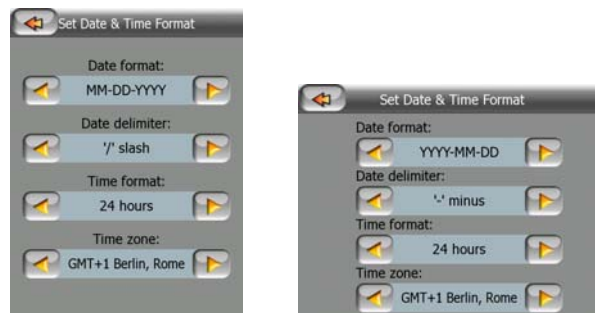
This button shows the current language of the voice guidance. By tapping the button you can select from a list of available languages and speakers. Tap any of these to hear a sample voice prompt. Just tap OK when you have selected the new spoken language.

6.4.3 Units

You can set the distance units to be used by the program. Mio Map may not support all of the listed units in some voice guidance languages. If you select a measurement unit that is not supported by the chosen voice guidance language, you will see a red warning message under the selector.

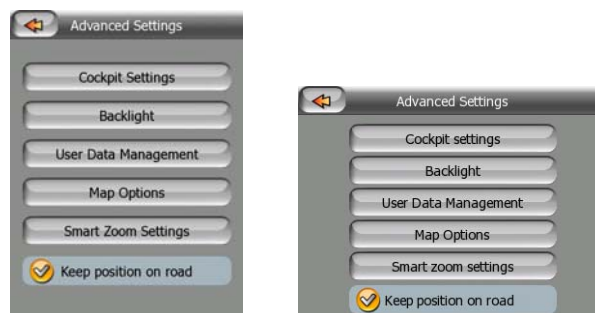
6.4.4 Set Date & Time Format

You can set the date and time format displayed by Mio Map. Various international formats are available. You can also set the time zone you are currently in.



6.5 *Advanced settings*

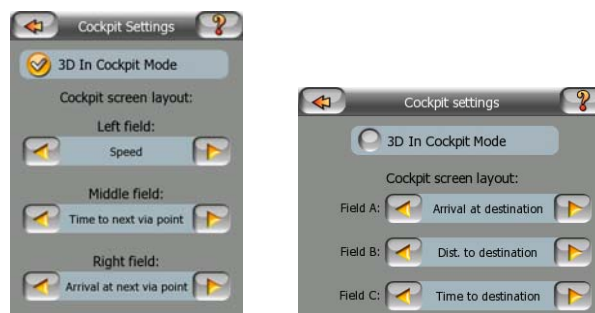
These screens let you set a large number of different advanced settings and initiate some special functions. These settings and functions are divided into six groups.



Tap on any button to set the corresponding parameters. All but the last one will open new windows where you can make your desired changes.

6.5.1 Cockpit settings

These settings determine how Mio Map displays different content elements of the Cockpit screen.



6.5.1.1 3D in Cockpit mode (and track-up orientation)

The normal use of the Cockpit mode is cruising or navigating, when the road lying in front of the driver is the most important part of the map. It is usually done in a 3D view with the current direction towards the top of the map. By default Mio Map uses the same look of the map in both Map and Cockpit modes. Use this switch to instruct Mio Map to always open the Cockpit mode in 3D with Track-up orientation (automatic map rotation) for driving purposes.

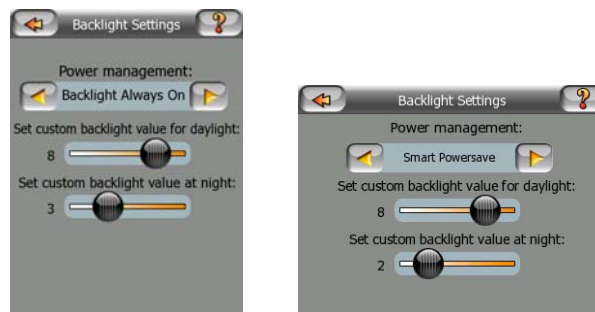
Note: You will still have the possibility to switch the map to 2D view or north-up orientation, but the map will return to 3D mode and map rotations whenever Cockpit mode is started.

6.5.1.2 Cockpit screen layout

There are three route data fields on the left of the Cockpit screen. Their content is fixed in Cruise mode (when there is no active route), but for Navigation mode you can change their content here. The available values are listed in 4.3.15.

6.5.2 Backlight settings

Here you can set how the display backlight behaves when using Mio Map. These settings are independent of the settings of the other applications of Mio DigiWalker.



6.5.2.1 Power management

At the top of the screen you can set how the backlight will behave when the screen has not been touched for a while.

Backlight always on

You can choose to have the lights always on.

Smart powersave

You can also initiate this special feature of Mio Map. Smart Powersave will light up the screen only when you press or tap a button, or if Mio Map has something to show you. After a few seconds the light level decreases, and after another few seconds the backlight turns off. This helps you achieve a longer battery life.

6.5.2.2 Brightness

You can set the backlight level separately for both daylight and night modes, thus enhancing the effect of the night colour scheme. The values are between 0 and 10, where zero means there is no backlight at all, and 10 represents the maximum backlight value.

6.5.3 User data management

Everything that was saved (pins, My POIs, Favourites, track logs etc.) or modified (Settings, History lists) since Mio Map was installed is stored in a user database located in the internal Flash Disk of Mio DigiWalker. Here you have options to save, restore or reset the database, or parts of it.



6.5.3.1 Backup Data

You can make a safe copy of the whole user database on the SD card.

Tap this button to copy all user data and settings to the SD card. The backup is always created with the same file name; so backing up data will always overwrite previous backups.

Tip: If you wish to keep more versions of the user database, or you wish to save one particular state (e.g. saved POIs and track logs of your holiday), look for the backup file on the SD card, rename it, or save it to your PC.

Tip: If you move to another Mio DigiWalker device, and you wish to keep your data and settings, make a backup, remove the SD card, insert it into the other device, then return to this Settings page on the new device, and push the Restore Data button as described in the next section. Mio Map will then restart, and all your previous POIs, track logs, settings, city and find history lists will also appear on the new device.

6.5.3.2 Restore Data

If you have accidentally deleted things, or you have created a number of temporary items and you do not wish to delete them one by one, you can tap this button to restore the state of Mio Map to the latest backup.

By tapping this button you will lose all of the changes made since the time of the latest backup. Mio Map will warn you about this before overwriting the current database with the backup.

6.5.3.3 Clear Data

This button will delete all user data. It is a reset to factory settings. Tapping this button means you lose all your saved data and customised settings. Mio Map will warn you about this.

6.5.3.4 Reset Advanced Settings

There are a multitude of Advanced settings in Mio Map. Some changes may cause Mio Map to behave in an unsatisfying manner. Tap this button to restore the default settings.

6.5.4 Map options

You can set a few parameters determining the appearance of the maps in Mio Map.



6.5.4.1 Daylight / Night colour profile

Mio Map comes with different colour schemes for both daylight and night use. There is always one selected daytime scheme and one selected night-time scheme. Mio Map uses these when switching from day to night and back.

Tap the appropriate button and select a new scheme from the list.

6.5.4.2 Show Street Labels

You can set whether or not to see the names of the streets and the POI icons on the map when driving. Based on the current zoom and tilt levels, street names are displayed either aligned with the street or on signposts stuck into the streets (4.2.4). If you switch these signs on, it will be easier to recognise your location on the map, if you turn them off, it will be easier to see the road geometry.

Note: You can only disable street names and POI icons if Mio Map follows your position. As soon as you move the map and Lock-to-Position (4.3.4) is disabled,

street names and icons become visible again. Tap Lock (4.3.4) to re-enable Lock-to-Position and have the labels and icons disappear again.

6.5.4.3 Textured Polygons

Enable textured polygons, and have rivers, lakes, forests and other large objects displayed in a more realistic and attractive way on the map. Disabling it will lead to uniform areas but better performance. See 4.2.5.

6.5.5 Smart Zoom

Smart zoom is a lot more than just a usual automatic zoom.

While navigating a route: when approaching a turn, it will zoom in and raise the view angle to let you easily recognise your manoeuvre at the next junction. If the next turn is at a distance, it will zoom out and lower the view angle to be flat in order to let you see the road in front of you, or it can even switch to an Overview mode to let you follow your position on the map.

While cruising: if there is no active route and you are just driving, Smart Zoom will zoom in if you drive slowly and zoom out when you drive at high speed.

These automatic features can be set up on this screen.



6.5.5.1 Enable Smart Zoom

Use this switch to enable or disable Smart Zoom. When disabled, the zoom and tilt levels on map screens during navigation are fixed, and you can set them manually using screen buttons (4.3.2 and 4.3.3). Turn this feature on to let Mio Map zoom and tilt the map automatically to always show you the best view for your navigation needs.

6.5.5.2 Enable Overview mode

You can configure how the Overview mode is triggered when the next turn is at a distance.

The Route event distance will determine when Mio Map switches to the Overview or back to the Navigation view.

The Overview zoom level will determine the fixed zoom level of the map in both automatic and manually (by the Map orientation icon – see in 4.3.8) selected Overview modes. You can change the zoom level at any time (the Lock button will not be displayed), but when you enter the Overview mode again, the zoom level will be reset to this value.

You can also move the map in Overview mode. Then the Lock button will appear, and when pushed, it will move the map to have your current position in the middle again.

On the other hand you are not allowed to rotate the map in Overview mode. This mode is a strictly north-up orientated mode.

Note: when this automatic feature is disabled, you can still enable the Overview mode manually as described in 4.3.8.

6.5.6 Keep position on road (Lock-on-Road)

Mio Map is normally used for vehicle navigation, therefore Lock-on-Road will display the position arrow precisely over roads, seamlessly correcting small GPS errors. For pedestrian use you may consider disabling Lock-on-Road to make Mio Map always show your exact position.

Note: By turning off Lock-on-Road you also turn off the GPS position error filtering. The position shown on the map will be subject to all position errors and position fluctuations.

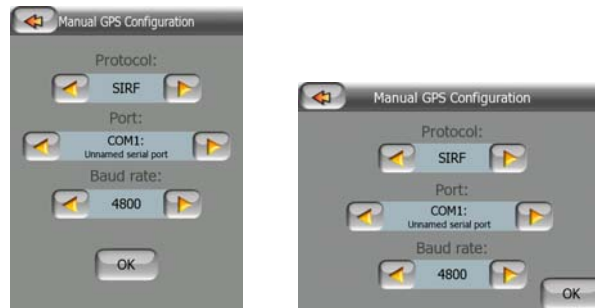
6.6 About screen

Tap ABOUT on the Main menu screen to open this screen. The About screen is not used in normal navigation. It is there to inform you about the map licenses you have, the creators of Mio Map and the legal aspects of using the program.



6.7 Manual GPS configuration

This screen is separated from the other settings as it is normally used only once, when you set up Mio Map for the first time. It can be accessed from the GPS Data screen (4.4.5) by pushing the Config. button. There are three values to set on this screen.



6.7.1 Protocol

This is the 'language' the GPS and Mio Map communicate in. The default NMEA is the worldwide standard that practically all GPS devices are able to use.

Note: If you use SiRF protocol in Mio Map, you need to change the protocol of your GPS to SiRF as well. This cannot be done in Mio Map. You need to quit the program, and use the application provided with your GPS.

6.7.2 Port

There are different wired and virtual serial ports on your PDA. You need to know which of them your GPS is connected to, and set it here.

6.7.3 Baud rate

You also need to set the speed your GPS is communicating at. The higher the speed, the smaller the position delay there will be (there is always a small delay between the real position and the position shown in navigation systems due to the time consuming processing and communication).

Tip: Unless you are comfortable with these settings, or you have a special configuration that demands manual set-up, you should use the automatic GPS detection feature of Mio Map to configure your GPS.

7 Troubleshooting guide

Thank you again for purchasing our product. We hope you will enjoy every minute of using it. However you may face difficulties before you get really accustomed to Mio Map. In such cases, please, refer to this table of frequently encountered problematic situations.

I cannot find the green arrow that would show my location. Navigation does not start.	Check the GPS status icon on any of the map screens (4.3.9) or the GPS Data screen (4.4). It is likely that the GPS cannot determine your position. Move the GPS out of cover to get a position fix.
The GPS is connected, sending valid position data, yet I cannot see the green arrow that would show my position.	You should see a large semi-transparent 'Lock' icon (4.3.4) on the screen. Tap this to re-enable the Lock-to-Position feature that moves the map back to your actual location.
The green arrow shows my location, but I cannot see the route (orange or red line), and no voice instructions are announced.	It is likely that you have no active route. Check the upper left corner of the Cockpit screen (4.3.1) if you can see the indication for the next turn or not. If this field is blank, you have no route planned, so you need to create one first. It is a common mistake to find a destination, show it on the map, but forget to tap the 'Route To' button in the Cursor menu (4.3.13) to create the route. Be sure to follow these steps, or always plan your routes by using one of the buttons on the Main menu screen. This will ensure your route is calculated automatically as soon as the destination has been selected.
I cannot see the Lock button on the screen, yet the map is not rotated during driving.	Look for a small, red 'N' letter on the compass icon (4.3.8) or an aeroplane icon instead of it. It is likely that you had initiated the North-up map orientation or

	the Overview mode unintentionally. Tap this icon to revert to Track-up mode with automatic map rotation.
Creating a multi-point route I have tapped the 'Route To' button once for each destination but only the last one appears in the list, all previous points have disappeared.	The 'Route To' button is for starting a new route only. For a single route you tap this when the destination is selected. Multi-point routes can be created after you have established a single route. Add points to the single route by using the 'Add Via' and 'Continue' buttons. Applying 'Route To' again will delete the whole route. In your case only single routes existed before, so they were deleted without a warning message. If you already have a multi-point route, Mio Map warns you before deleting the whole route.
The speaker icon shows Mio Map is not muted yet I hear no voice guidance.	The muting available from both map screens is just a quick silencer that cancels the sound output. Voice guidance and key sounds need to be enabled and volume must be set at the Sound Settings screen (6.2).
I enabled the speed warning as soon as I bought the product but I have just been fined for speeding because Mio Map failed to warn me.	For an accurate speed warning the actual speed limits of each street and road must be present correctly on the map. This is a relatively new feature of digital maps, so it may not be available in some countries, and its accuracy still has much room for improvement (ask your local dealer for the details in your region). This feature can help you in several cases but it cannot be considered as serious speed control. That is why it can be turned on and off separately from the reliable voice guidance (6.1.3).
I would like to create a new POI during navigation (Cockpit screen) but there is no Add POI button in the Cursor menu.	For driving safety reasons the Add POI function is only available on the Map screen. If you are the driver, save it as a POI later, when you reach your destination. If you are not driving, switch to Map mode, where the Add POI button is available.

<p>I would like to create a new POI but there are others near its location, and the new menu point (POI) opens the list of POI instead of creating a new one.</p>	<p>Look for the New button in the bottom left corner of the newly opened list. Using that button you can add your new POI as if it was opened from the Cursor menu.</p>
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8 Glossary

The manual may contain many technical terms. Please look below for an explanation if you are unfamiliar with some of them.

- **2D/3D GPS reception:** The GPS receiver uses satellite signals to calculate its (your) position. Depending on the current positions of the ever-moving satellites in the sky, and the objects in your environment, the signal that your GPS device receives may be weaker or stronger. Your GPS needs strong signal from at least four satellites to give a three dimensional position including elevation. If fewer satellites are available, it may still be possible to calculate the position but the accuracy will be lower and the GPS device will not calculate elevation. This is called 2D reception. Mio Map shows the quality of reception on the GPS Data screen (4.4.3) and both map screens (4.3.9). Note that 2D and 3D GPS receptions have nothing to do with the 2D and 3D display modes of the map. That is a way of representing the map on the screen independently from the GPS reception.
- **Accuracy:** The difference between your real position and the one given by the GPS device is affected by several different factors. The GPS is capable of providing a guess of its current error based on the number of satellites it can receive a signal from, and their position in the sky. This information is shown in Mio Map on the GPS Data screen (4.4). Lower numbers indicate better accuracy, where 1.0 is near-perfection. Use it as a general reference only. Note that several other factors affect the real accuracy, some of which the GPS is incapable of estimating (e.g. signal delay in the ionosphere, reflecting objects near the GPS device, etc.).
- **Active route:** A route is an itinerary planned to reach your chosen destinations. A route is active when it is used for navigation. Mio Map has only one route at a time, and it is always active until you delete it, reach the final destination or exit Mio Map. When there is more than one destination to reach, the route is cut into different legs (from one via point to another). Only one of these legs can be active at one particular time (4.2.11.3). The rest of them are unused, and inactive.
- **Automatic route planning (Autorouting):** You only need to set up your destination, and based on its map, the software will automatically figure out which roads you need to take, and the turns you need to make to get there. Mio Map will let you select multiple destinations, and customise some important routing parameters (6.3).

- **Automatic route recalculation:** If this function is enabled (6.1.8.1), Mio Map recalculates your route if you deviate from it. When you miss a turn or avoid a roadblock, Mio Map waits for a few seconds to be sure you do not follow the route any more, then recalculates the route based upon your new position and heading.
- **Automatic day/night colours:** Based on the time and position given by the GPS device, Mio Map is able to calculate when the sun rises and sets at your current location on this particular day. Using that information Mio Map can change between the day and the night colour schemes a few minutes before sunrise and a few minutes after sunset (6.1.2). As additional information to help your orientation, the sun is shown in the sky when you display the map in 3D mode with a low viewing angle, and the sun is near the horizon.
- **Elevation:** When the GPS receiver can see at least four GPS satellites, it can determine its current position in three dimensions. In this case the elevation is calculated together with the latitude/longitude position. Note that some older GPS units may provide incorrect elevation data because they use a simple ellipsoidal earth model rather than a database that contains local sea levels. You should also be aware that the elevation value is generally less accurate (by at least a factor of 2) than the horizontal position. See also 2D/3D GPS Reception.
- **ETA (Estimated Time of Arrival):** A frequently used expression in navigation. It represents the time when you will reach your destination based upon calculations using the remaining part of the route and available information of the roads used. This estimation can only be used as a general reference. It will not be able to take into account your future speed or the traffic delays. In Mio Map this value is shown as 'Estimated Arrival' on the Route Information screen (4.5.1.5).
- **ETE (Estimated Time Enroute):** Another frequently used expression in navigation. It represents the time needed to reach your destination based upon calculations using the remaining part of the route and available information of the roads used. This estimation can be used only as a general reference. It will not be able to take into account your future speed or the traffic delays. In Mio Map this value is shown as 'Time left' on the Route Information screen (4.5.1.4).
- **GPS:** Abbreviation of Global Positioning System. This system is operated by the DoD (the Department of Defense of the United States Government). It consists of 24 satellites orbiting Earth, and several ground stations to keep the satellites in sync. To calculate your position, your GPS device uses the signals received from those GPS satellites that are currently visible at your location. You can use this service free of charge.
- **Lock-on-Road:** This function of Mio Map will always keep the green arrow representing your actual position on the nearest road. This automatic feature is necessary as the position given by the GPS receiver is not perfectly accurate. Under normal circumstances Lock-on-Road will eliminate the occasional position error. If the corridor of error is too large, your position may

be shown over a different street on the map. You can only avoid that by using good quality GPS equipment positioned so that it has a direct view to as large a portion of the sky as possible. Normally Lock-on-Road is always active in Mio Map when GPS position is available. See also 4.2.6. However for pedestrian use it can be permanently turned off in Advanced settings (6.5.6).

- **Lock-to-Position:** When GPS position is available, Mio Map will automatically keep moving the map to always have the green arrow, representing your actual position, on the screen. You can move or rotate the map to lose this position. Then the Lock button appears on the screen. Tapping that or pressing the Enter button will re-enable Lock-to-Position. See also 4.3.4.
- **Map Orientation:** Mio Map is able to rotate the map for your convenience. If you choose Track-up mode, the map will be rotated to look in the direction of your heading. Selecting North-up, the map remains oriented to have North toward the top. Use the left and right hardware buttons to turn your map in the direction you wish. This will immediately turn off the automatic rotation. A small compass in the top right section of the map screens (4.3.8) will always show the current direction of the map. Map orientation should not be mixed up with Screen orientation that affects the appearance of all Mio Map screens.
- **NMEA (National Marine Electronics Association):** This is the name of a communication protocol format. This association issues standards for interfacing marine electronic devices. One of their standards is NMEA-0183 that defines electrical signal requirements and a data transmission protocol for time and position data. This is today's standard for not only marine but also all other GPS devices. Mio Map, as well as most GPS devices, will default to using this protocol out of the box.
- **North-up:** A kind of map orientation having the map rotated to have North toward the top of the screen. See also Track-up and Map Orientation.
- **POI:** Points Of Interest, exact map locations of important points saved in a database together with their name, category and subcategories (e.g. Service/Fuel/Autogas), address, phone and fax number, and other important information. Use the versatile search system in Mio Map to find the appropriate POI near you, your destination or any other given location on the map (5.3.4). You can also have your favourite places saved as 'My POI' in Mio Map.
- **Track log:** In Mio Map you have the possibility to record your journeys using the position data your GPS provides in every second or every few seconds (depending on your GPS settings). When you start the recording, position data are saved in the database until you stop recording it. This set of sequential GPS positions is called track log. Each set of consecutive positions has a name (originally it is the time of recording but you can change it to any name you like) and a colour in which it can be displayed on the map. Later you can replay the journey on the screen of Mio Map as if it were happening again. This is good for demonstration purposes or for analysing your manoeuvres during the trip. See also 4.6.2.6.

- **Track-up:** A kind of map orientation when the map is rotated to look always in the direction of your heading. See also North-up and Map Orientation.
- **Via point:** Routes in Mio Map can have several (as many as you want) different destinations to reach in a specific order. All these points except the final destination are called via points, as the route goes 'via' (through) them. The destinations can be seen in the Route Information screen on the Route line (4.5.1.1), and each via point is announced by the voice instructions as you approach and when you reach it. Should your via point serve as a stopover, navigation continues automatically as you depart. Navigation will resume even if you turn off and on Mio DigiWalker or restart Mio Map.
- **Zoom In and Out:** The Zoom function is used to change the scale of the map. Use Zoom In to scale down the map to see less of it but in more detail, and use Zoom Out to scale the map up to have a broader view of that part of the map with fewer details. See also 4.2.2 and 4.3.2.

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